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SUCCESSORS OF THE SĀTAVĀHANAS IN THE EASTERN DECCAN

By

DINES CHANDRA SIRCAR, M.A.,

INTRODUCTION

The aim of the author of these pages is to give a detailed account of the local dynasties that ruled in Andhra-deśa or the Telugu country from the time of the decline of Sātavāhana power up to the conquest of the country by the Cālukyas. Tiliṅga, *i.e.*, the Telugu country (Andhra-deśa) has been thus defined in the Śrīraṅgam plates dated A.D. 1358 (Ep. Ind., XIV. 90) :

पश्चात् पुरस्ताद् यस्य देशौ महाराष्ट्रकलिंगसंज्ञो ।
अवागुदक् पांड्यकाकान्यकुञ्जौ देशस् स तत्रास्ति तिलिंगनाम ॥

that is, the Telugu country is bounded by Mahārāṣṭra on the west, Kaliṅga on the east, Pāṇḍyaka on the south and Kānyakubja on the north.¹ The tradition recorded here, however,

¹ It is curious that an inscription of the 14th century gives the name of Kānyakubja as bordering on the north of the Andhra country. Kānyakubja (Kanauj) appears to have thrice become the capital of a North Indian Empire; first under king Harṣa of the Puṣpabhūti family, secondly under the Gurjara-Pratihāras, the most renowned members of whom were Bhoja and Mahendrapāla, and thirdly under the Gāhaḍavālas. Here is probably a reference to the Pratihāra-Gāhaḍavāla empire of Kanauj. The empire of Kānyakubja, though it was no longer a political unit in the 14th century, was possibly still lingering as a social and geographical unit.

gives a wider boundary of the Telugu country, if not the widest which included even the whole or at least the greater part of the kingdom of Kaliṅga. For particulars of these wider boundaries, our readers may be referred to Sylvain Lévi's learned paper, *Pré-aryens et pré-dravidiens dans l'Inde* : no. 3, Kaliṅga-Triliṅga (Journ. Asiatique, 1923). We, however, have accepted here a narrower limit of the country, the heart of which roughly comprised the present Kistna, Guntur and the Godavari Districts. In Sanskrit literature this country is famous under the name of Andhra-deśa.

The country has been referred to in the Mayidavolu inscription of the early Pallava king Sivaskandavarman (Ep. Ind., VI. 88) as Andhāpatha (Andhrāpatha), which certainly embraced the modern Kistna-Guntur region, as it is said to have had its centre at Dhaññakāḍa. As regards the identification of Dhaññakāḍa (Sanskrit, Dhānyakaṭaka) Dr. Vogel says, "The remains of Nagarjunikonda (* in the Palnad taluk of the Guntur District) can possibly represent the ancient capital of Dhaññakāṭaka, which archaeologists have sought both at Dharanikota near Amarāvatī and at Bezvāḍa." (Ep. Ind., XX. 10).

The Andhra country was practically the lower valley of the Krishna and the Godavari. The ports at the mouths of these rivers, therefore, appear to have belonged to this country. That they were great centres of South Indian as well as Far Eastern trade in the early centuries of the Christian Era is quite clear from the statement contained in the Geography of Ptolemy (c. 140 A.D.). Prof. Dubreuil appears to be right in saying that "the point of departure for vessels bound for Khryse (* the land of gold, i.e., the Far Eastern countries) during the time of Ptolemy, was situated near the mouth of the Godavari and that it was from there that the civilisation of India started to go over to Burmah, Java, Cambodia and Anam" (Ancient History of the Deccan, p. 88).

The Andhra people and their country are mentioned many times in literature ; but history of the Andhra-deśa, based on epigraphic evidence, only begins from the third century B.C., i.e., the time of the Maurya emperor Aśoka. In the time of Aśoka the Maurya frontier certainly extended in the south as far as the Pennar river near Nellore, as only the Tamil kingdoms of the Ceras, Colas and the Pāṇḍyas have been distinguished as *pracāṇta* (border states) from the *vijita* (dominions) of the king, and as inscriptions of Aśoka have been found on rocks as far south as the Chitaldrug District, Mysore. The Andhras are mentioned in the thirteenth Rock Edict of Aśoka in the list of subordinate peoples that lived in the dominions (*idha rājavisayamhi*) of the king. After the strength of the Maurya empire had waned, the people of the Andhra-deśa may have assumed independence.

A king named Kubiraka has been mentioned in an inscription discovered at Bhattiprolu, in the Repalle taluk of the Guntur District. According to Bühler, the Bhattiprolu inscriptions belong to the period immediately after Aśoka, i.e., to about 200 B.C. (J.R.A.S., 1892, p. 602). It is therefore possible to think that king Kubiraka fought successfully with the weak successors of Aśoka (who died sometime before B.C. 230) and liberated the Andhra country from the Maurya yoke. But unfortunately we know next to nothing about this king.

Epigraphy is silent as regards the Andhra country for a long time after Kubiraka. Only about the second century of the Christian Era we find the country occupied by kings, belonging to the family known in Epigraphy as the Sātavāhana.¹ An inscription of Vāsiṣṭhiputra-Pulumāvi and another of Sivamaka Sāta have been discovered at Amarāvatī (A.S.S.I., pp. 61 & 100). A rock inscription belonging to the 2nd (?) year of Vāsiṣṭhiputra

¹ The Purāṇic designation of the Sātavāhana dynasty is Andhra, which is mentioned in Aśokan records as the name of a subordinate people. It is not impossible that Andhra chiefs ruled as provincial governors under the Maurya Emperors (cf. the case of Yavana-rāja Tuśāspa, who according to the Junagadh rock inscription of Rudradāman ruled Surāṣṭra as Aśoka's governor).

Caḍa Śāṭa (Candra Śāṭi) has been discovered at Kodavali near Chandarti in the Pittapur taluk (Kolanka State) of the Godavari District (Z. D. M. G., LXII, pp. 591-2 ; Ep. Ind., VIII. 316). Another fragment of a pillar has been discovered at China (Kistna District) near the mouth of the river Krishna and has been found to bear an inscription dated in the 27th year of the reign of the Śāṭavāhana king Gautamī-putra Yajñā-Śāṭakarṇi¹ (Ep. Ind., I. 95). These epigraphs are clear proofs of Śāṭavāhana occupation of the Andhra country in the 2nd and the 3rd centuries A.D. A rock inscription of another Śāṭavāhana king, Pulumāvi, discovered at Myakadoni in the Adoni taluk of the Bellary District (Ep. Ind., XIV, p. 153) also shows that the Śāṭavāhanas were then master of the Andhra region. Some coins of the Śāṭavāhana kings have also been discovered in the Andhra-deśa. Coins of king Pulumāvi bearing the symbol "ship with two masts" were picked up on the Coromandel Coast (Rapson's Catalogue, pp. 22-3). A great number of coins bearing the name of Vāsiṣṭhī-putra "Siri Pulumāvi" and Gautamī-putra "Siri Yañā Śāṭakarṇi" (śrī Yajñā Śāṭakarṇi) have been discovered in the Kistna and the Godavari Districts (*ibid.*, pp. 2, 20, 24, 30, 32, 34, 38, 41). A large number of coins belonging to Vāsiṣṭhīputra śrī Candra Śāṭi has also been discovered in the same area. Besides these kings numismatics disclosed the name of two other Śāṭavāhana kings, Vāsiṣṭhī-putra Śivaśrī Śāṭakarṇi, and Rudra Śāṭakarṇi, whose coins have also been found in the districts of Kistna and Godavari. In the Anantapur, Chitaldrug and the Kuddāpa districts have been discovered a number of coins which have been attributed by Rapson to some feudatories of the Śāṭavāhana kings (*ibid.*, lxxxi). The coins bearing "a ship with two masts" suggest that the power of king Pulumāvi extended over the sea.

¹ Scholars generally write the name of this king as Yajñāśrī-Śāṭakarṇi, possibly because he is so styled in the Purāṇas (Vāyu, 99, verse 55). But as in the inscriptions and on the coins of this king the name found is Siri-Yañā-Śāṭakarṇi (=Śrī-Yajñā-Śāṭakarṇi (vide Lüders' List, Nos. 1024, 1146 and 1340; Rapson, Cat., 2 ff.), there can be no doubt that the king's name really was not Yajñāśrī-Śāṭakarṇi but Yajñā-Śāṭakarṇi. See my Note on the Name of the Last Great Śāṭavāhana King in J.R.A.S., Jan., 1934.

The date of these kings is a disputed question ; but two points seem certain in this respect : (1) King Vāsiṣṭhiputra Pulumāvi could not be far removed from (but was possibly for some time a contemporary of) the Saka Satrap Rudradāman, who is known to have ruled from c. 130 A.D. to c. 150 A.D. The mention of Baithana (Paithan in the Aurangabad District) as the capital of Siroptolemaios (siri Pulumāvi, contemporary of Tiastenes=Caṣṭana) by Ptolemy (c. 140 A.D.) is also very important in ascertaining the date of Vāsiṣṭhiputra Pulumāvi in about the middle of the 2nd century A.D. (2) According to the evidence of palaeography, the reign of king Pulumāvi and that of Yajña could not have a great interval between. It is, therefore, very probably certain that Yajña ended his rule not long after A.D. 200, and Yajña was the last great king of his dynasty.

The local ruling families of the eastern Deccan either ruling as subordinates or as governors, such as the Śālaṅkāyanas, the Br̥hatphalāyanas, the Pallavas and the Ikṣvākus, who so long submitted to the strong Sātavāhana suzerainty at the time of Vāsiṣṭhiputra Pulumāvi and Gautamīputra Yajña Śātakarṇi, appear to have gradually raised their heads and supplanted the weak successors of Yajña. From palaeographic consideration, it appears that the Ikṣvākus were the first to grow powerful in the Kistna-Guntur region and to throw off Sātavāhana suzerainty in about the first half of the 3rd century A.D. The Ikṣvāku king Vāsiṣṭhiputra Cāṇtamūla appears to have been the first performer of the Aśvamedha sacrifice among the successors of the Sātavāhanas in the Eastern Deccan. The performance of the Aśvamedha, Vājapeya and other Vedic sacrifices by this king clearly shows that at his time the Ikṣvākus were no longer feudatories of the Sātavāhanas, who were therefore ousted from the Kistna-Guntur area before *circa* 250 A.D.¹ The successors of the

¹ According to the Purāṇas, Yajñaśri-Śātakarṇi (23 years ; real name Yajña-Śātakarṇi) was succeeded on the throne by Vijaya (6 years ; not known from epigraphy or numismatics),

Iksvākus in the sovereignty of this area appear to have been the Br̥hatphalāyanas and the Pallavas. The Pallavas became very powerful at the beginning of the 4th century A.D. Pallava epigraphs discovered at Mayidavolu, Hirahadagalli and Guntur (now in the British Museum) which appear to belong paleographically to the 4th century, show that the Pallavas at that time were master of the Andhrāpatha as well as the Bellary region. Pallava headquarters in the Andhra country at the time of king Sivaskandavarman, a performer of Aśvamedha and other sacrifices, were at Dhaññakaḍa (= Dhānya-kaṭaka). The supremacy of the Pallavas in the Andhra-deśa appears to have broken down owing to the rise of the Śālaṅkāyanas of Veṅgi (W. Godavari District) and the Ānandas of Kandarpaura (Guntur District). Devavarman, the Śālaṅkāyana performer of the Aśvamedha sacrifice, possibly reigned not long after the Pallava king Sivaskandavarman. The evidence of the Kanteru plates (Journ. Andhra Hist. Res. Soc., V, p. 21) proves that the later Śālaṅkāyanas became master of much of the territories that were once under the Iksvākus, Br̥hatphalāyanas and the Pallavas. After the collapse of the Śālaṅkāyana power, however, the Viṣṇukundins gradually became master of the whole of Andhra-deśa. When the Cālukyas established themselves at Piṣṭapura in the beginning of the seventh century A.D. the Viṣṇukundins appear to have struggled hard with them for existence. But gradually their power collapsed and the whole of the Andhra-deśa came in the possession of the Cālukyas.

It must not, however, be thought that these dynasties came one after another on the political stage of the Andhra country. The Śālaṅkāyanas, as we shall see, were most probably in posses-

Campūśri Śāntikarna or Candraśri Śātakarpi (10 years; = Caḍa Śāti of inscription and Cada-Śāti, i.e., Candra Śāti of coins), and by Pulomāvi (7 years; issuer of the Myakadoni grant), who was the last king of the Andhra dynasty (Rapson, Catalogue of Indian Coins in the British Museum, p. lxvii). If Yañja-Śātakarpi died about A.D. 200, Pulomāvi appears from the Purāṇas to have ended his rule about A.D. 223. According to Krishnasastri (Ep. Ind., XVIII, p. 318) the 2nd year of Candra Śāti is probably equivalent to A.D. 210.

sion of the district of Venigī even in the age of Ptolemy (c. 140 A.D.), when the Sātavāhanas were apparently the suzerain of the Andhra-deśa. We shall also see that even at the time of the great Sātavāhanas there ruled a family (most probably the Br̥hatphalāyanas), possibly as their feudatory, in the district round Masulipattan. Excepting the Viṣṇukuṇḍins, all the earlier dynasties that reigned in the Andhra-deśa after the Sātavāhanas, seem to have ruled more or less contemporaneously.

In these pages, we have given an account of the local dynasties that ruled between the Sātavāhanas and the Cālukyas. These were, therefore, the Ikṣvākus, the Br̥hatphalāyanas, the Ānandas, the Śālaṅkāyanas and the Viṣṇukuṇḍins. I have not dealt separately with the Pallavas, who for some time were master of the southern part of the Andhra-deśa. The reason is two-fold. First, the Pallavas as a ruling dynasty do not belong properly to the Andhra-deśa ; secondly, the history of the Pallavas is not at all a neglected subject like that of these dynasties.

In placing my work before the students of Indian History, I humbly request them to consider the new points I have been able to light upon in these pages. The chapters which I claim here to be original are those on the genealogy of the Ānandas, Śālaṅkāyanas and the Viṣṇukuṇḍins, and those on the chronology of the latter two dynasties. I have tried to establish a relation between the two known Ānanda kings, on the basis of the natural meaning of the passage *hiranya-garbh-odbhav-odbhava* of the Mattepad plates. I have tried also to settle the genealogy and chronology of the Śālaṅkāyanas and the Viṣṇukuṇḍins, in which, as I have shown, mistakes have been made permanent by previous writers. The theory of the existence of a king called Sana in the Kistna District in the second century A.D., has been discussed and found to be untenable, and errors in the reading of the Alluru inscription have been pointed out. The real significance of the passage *Hiranya-garbh-odbhava* has, I believe for the first time, been correctly pointed out in the following

pages.¹ In interpreting terms like *āyukta*, *vallabha*, *hastikośa*, *vyāprta*, *adhikāra-puruṣa* and others, I have spared no pains in utilising to the full epigraphic as well as lexicographic and classical literature. I have also made full use of the Epic, Purāṇic and the Smṛti literature in explaining passages like *arasita-vividha-divya*, *hiranya-garbh-odbhava* and others.

¹ Recently I have explained the meaning of the passage in a paper published in the *Bhāratvarṣa* (Bengali), Bhādra, 1340 B.S., pp. 393 f. My paper entitled *Hiranyagarbha*, has been accepted for publication by the Council of the J.R.A.S.

CHAPTER I

THE IKŚVĀKUS.

1. *The Southern Ikṣvākus.*

Inscriptions of the Ikṣvākus of Eastern Deccan have been discovered at Jaggayyapetta in the Nandigram tāluk of the Kistna District (Ind. Ant., XI. 257) and at Nagarjunikonda in the Palnad tāluk of the Guntur District (Ep. Ind., XX. 1) of the Madras Presidency. Formerly, Burgess expressed the opinion that these inscriptions belong to about the 3rd or the 4th century A.D., "but are probably earlier." Bühler, and following him Vogel who has recently edited the Nagarjunikonda inscriptions, ascribe the Ikṣvāku records to the 3rd century of the Christian Era.

Ikṣvāku as the name of a king possibly occurs once in the R̥gveda (X.60.4). The word there may, however, be also taken as an epithet of the name of another person, Asamāti, whom the Jaiminīyabrahmaṇa (III. 167), Br̥haddevatā (VII. 85 ff.), etc., take to be an Ikṣvāku prince. Ikṣvāku in the Atharvaveda (XIV. 39.9) seems to be regarded as an ancient hero. According to Macdonell and Keith (Ved. Ind., s.v.) the Ikṣvākus originally were a branch of the Puru family. Zimmer places them (Alt. Leben, 104, 130) on the upper Indus; the Vedic Index, however, thinks that the Ikṣvākus may well have been somewhat further east even in the Vedic period. Later Ikṣvākus are connected chiefly with Ayodhyā, the capital of the Kosala *janapada*. We have long lists of Ikṣvāku kings in the Purāṇas and the great epics. But we do not know of any relation between the Ikṣvākus of Ayodhyā and the Ikṣvākus of the Madras Presidency. Were the Southern Ikṣvākus a branch of the famous Ikṣvāku family of Northern India, which migrated and eventually carved out a principality in the Eastern Deccan ?

It is possible that the epithet *ikhāku-rāja-pravararisi-sata-pabhava-vamsa-bhava*, applied to Lord Buddha in an inscription of the Southern Ikṣvāku king Virapurisadata, refers to a claim of the king to belong to the same family as the Lord who, according to traditions, belonged to the famous Ikṣvāku family of Kosala (Majjhima-Nikāya, II.124). It is also interesting to note that the Southern Ikṣvākus were matrimonially related to the Southern Kekayas, as indeed, according to the Rāmāyaṇa, the Ikṣvākus of Ayodhyā were to the Kekayas of Girivraja in the Punjab. But in considering the question of the relation between the Northern and the Southern Ikṣvākus, we have also to remember the views of Caldwell regarding the nature of the Aryanisation of South India. "The Aryan immigrants to the South," he says, "appear to have been Brahmanical priests and instructors, rather than Kshatriya soldiers, and the kings of the Pāṇḍyas, Cholas, Kaliṅgas, and other Dravidians, appear to have been chiefly Dravidian chieftains whom their Brahmanical preceptors and spiritual directors dignified with Aryan titles, and taught to imitate and emulate the grandeur and cultivated tastes of the Solar, Lunar and the Agnikula races of kings." (Comp. Gram., 2nd ed., Intro., 115). This view is certainly correct in some cases. As we know, the Hadis of Mymensingh (Bengal), a tribe closely allied to the Garos, have, only the other day, been allowed to wear *upavitas* and to bear the ancient and illustrious name of the Haihaya Kṣatriyas.¹ It is therefore, not easy to determine whether the Southern Ikṣvākus were actually Aryan immigrants from the North (which is

¹ It is to be noticed that at present the population of Eastern and Southern India is generally divided not into four but only into two *Varṇas*, viz., the Brāhmaṇa and the Śūdra. In Eastern India has, however, now come an age when nobody likes to remain a Śūdra. For a list of aboriginal tribes claiming the status of Brāhmaṇa, Kṣatriya and Vaiśya, see *Census of India*, 1931, Vol. V (Bengal and Sikkim), Pt. I, pp. 426-27. If, however, the Āguris are Ugra-Kṣatriya, the Bāgdis are Vyāgra-Kṣatriya, the Namah-Śūdras are Namo-Brāhmaṇa and the Nāpits are Naī-(or Sāvitri-)Brāhmaṇa, as we have it there in the list, may not the Moslems, the Christians and the Japanese (or the Javanese) as well claim to be called Muṣala-Kṣatriya, Kliṣṭa- (or Kṛṣṇa-)Kṣatriya and Yavana-Brāhmaṇa respectively?

possible) or a Hinduised aboriginal family of rulers, who appropriated the name of the most glorious royal family of ancient India.¹ The question is, moreover, a little further complicated by the points brought to our notice by Przyluski in an interesting paper in the *Bulletin de la Société de Linguistique*, 1926, p. 83.²

The Sanskrit word *ikṣvāku* means "gourd." It is interesting that some Austro-Asiatic peoples call themselves issue either of a gourd or a melon, of which every seed gave birth to a man (Bonifacy, *Cours d'ethnographie indo-chinois*, 45; and Cochbrane, *The Shans*, I. 120). This myth seems to

¹ The extension of the name of "Kośala," where the Ikṣvākus ruled, over the modern Sambalpur-Raipur-Bilaspur region in the Dakṣināpatha (*cf.* कौशलकमहिन्द्र mentioned as a दक्षिणापथराज् in the Allahabad pillar inscription) and the tradition recording the establishment of Kuśa, son of the Ikṣvāku hero Rāma, at Kuśavati to the South of the Vindhya and the Revā (Raghuvamśa, XVI.31) probably go to prove a southerly course of the Ikṣvāku expansion. It may also be noticed that the southern kingdoms of Aśmaka and Mulaka (on the Godavari) were traditionally known to be founded by two Ikṣvāku princes named Aśmaka and Mulaka (Vāyu Purāṇa, 88. 177-8). The history of the Ikṣvākus, Kekayas, Mālavas, Śibis, Guptas, Mauryas, Aśmakas and the Kadambas (who claim Alcicchatra in the modern Rohilkhand for their original home) and stories of the sons of Viśvāmitra, of Rāma, Vijaya, the sage Bāvari and others may all be very important in dealing with the Aryanisation of Southern India. But while we have reliable evidence of the migration of the Mālavas (=Maloi of Greeks : on the lower valley of the Rāvī in Alexander's time) and the Śibis (=Siboi of the Greeks : in Alexander's time in the Shorkot region of the Jhang District, Punjab), and also of the Mauryas and the Guptas, from north to south—there is no satisfactory evidence as regards the migration of the other families or tribes. The mention of the Mālayas (=Mālavas) as living in the vicinity of Puṣkara (near Ajmere) in an inscription of Usavadāta (Ind. Ant., 1918, p. 75), the find of coins with the legend *Mālatānāṁ jayāḥ* in the southern part of the Jaipur State (Rapson, Indian Coins, § 51) and the name of the modern province of Mālwā, prove conclusively the southerly course of the Mālavas. As regards the Śibis we may however challenge the authority of the tradition recorded in the *Daśakumāracarita* about their settlement on the Kaveri and their connection with the greater Colas as is claimed in the Udayendiram plates (S. I. I., II, p. 382); but the discovery of their coins at Nagari leaves no doubt that the Śibi tribe marched at least as far south as the Chitorgadh District of Rajputana. It can also be hardly doubted that the Mauryas of Konkan and the Guttas (=Guptas) of Guttala were branches respectively of the famous imperial dynasties of those names that ruled at Pāṭaliputra. The cases of the other tribes or families however though not impossible cannot be substantially proved at the present state of our knowledge.

² An English translation of this paper is to be found in P. C. Bagchi's *Pre-Aryans and Pre-Dravidians in India* (Cal. Univ.).

have passed into Indian tradition, in which Sumati, queen of king Sagara of Ayodhyā (to whom 60,000 sons were promised), gave birth to a gourd, and from that gourd came out 60,000 children (Rām., I. 38 ; Mahābhā., III. 106 ; Bhāg. Pur., IX. 88). The Austro-Asiatic myth of gourd-ancestor seems to have been transposed in the legends of Sumati and Ikṣvāku, who have been placed at Ayodhyā. But as is often the case in Indian literature, it appears that in the second case, the authors have modified the myth for the sake of ennobling it. The epic poets could not be pleased with the idea that a gourd had given birth to a glorious dynasty. Ikṣvāku, which properly means a gourd in Sanskrit, appears, therefore, to have been personified as a hero, son of Vaivasvata Manu (Rām., I. 70, vs. 20-21; Mahābhā., I. 75, vs. 31-40) or that of Sage Gautama (Rockhill, Life of the Buddha, 10-11). In a story of the Dul-va, analysed by Rockhill, attempt has been made to explain the name Ikṣvāku by the fact that the children of the Sage Gautama were found in a field of sugarcane (*ikṣu*).

If we think, now, that the Ikṣvākus were originally an Aryan tribe, this Austro-Asiatic influence possibly shows that they were closely connected with the aborigines of the country, wherein there was a strong Austro-Asiatic element, and consequently shared some of their beliefs and traditions. Relation, matrimonial and otherwise, of Aryan ruling families with the aborigines is frequently illustrated in the Epic and the Purānic literature. That the Aryan families which migrated to South India, had to accept some aboriginal customs, is also clear from the fact that very early authorities on *smṛti* had to acknowledge and distinguish between the Aryan customs of Northern and those of Southern India. Baudhāyana, who lived long before Christ and is a very great authority, speaks in his *Dharmasūtra* (I. ii. 1-4) of *mātula-pitr-svasṛ-duhitr-gamana* (i. e., sexual relation with daughters of mother's brother and father's sister) as an established custom in the South. In this connection, it is interesting to note that the Ikṣvāku king

Virapurisadata had, among others, three queens who were the daughters of his father's sisters.

The capital of the Southern Ikṣvāku kings is not known. But probably it was at Dhānyakaṭaka. Vogel thinks that “the remains of Nagarjunikonda can possibly represent the ancient capital of Dhaññakaṭaka, which archaeologists have sought both at Dharanikoṭa near Amarāvatī and at Bezwāda.”

It must be noticed that the country, which according to the evidence of the Nagarjunikonda and the Jaggayyapetta inscriptions appears to have belonged to the Ikṣvākus in about the second half of the 3rd century A.D., is known to have belonged to the Sātavāhanas in the 2nd century. After the decline of the Ikṣvākus, this region passed into the hands of the Pallavas of Kāñcī. The Mayidavolu (Guntur District) Prakrit plate (Ep. Ind., VI. 86) of the Pallava Yuvamahārāja Śivaskandavarman, records an order of the Yuvamahārāja to the *vāpata* (*vyāprta*, i.e., governor) of Dhaññakaṭada (Dhānyakaṭaka) to execute the grant of a village named Viripāra situated in the Andhāpatha (Andhrāpatha). Another set of plates of the same age belonging to the Pallava king (vijaya)-Skandavarman, was discovered in the Guntur District. According to Prof. Dubreuil, king (vijaya)-Skandavarman of this inscription is the same as the Yuvamahārāja Śivaskandavarman of the Mayidavolu plate. Whatever the identification be worth, it is clear that the Ikṣvākus were ousted from the Kistna-Guntur region by the Pallavas of Kāñcī.

We cannot neglect to mention in this connection the rise of the Br̥hatphalāyanas in the district round Masulipattan. It is, however, certain that the weak successors of the great Cāptamūla and his son Virapurisadata were finally swept away by the Pallavas of Kāñcī at about the beginning of the 4th century A.D. But it is quite possible that the rise of the Br̥hatphalāyanas had a large share in weakening the power of the Ikṣvākus.

An inscription of about the 5th century A.D. (Ep. Carnat., XI, p. 142), discovered at Anaji in the Devangere tāluk (Mysore), speaks of a Kekaya prince, named Sivanandavarman

who claims, for his family, matrimonial connection with the saintly kings of the Ikṣvāku line. (*Cf. parama-māheśvarah mātā-pitr-pādabhaktah ātreya-gotrah soma-vamś-odbhavagh ikṣvākubhir=api rājarṣibhiḥ kṛt-āvāha-vivāhānāṁ kekayānām kule jātaḥ śivanandavarmā*). This fact possibly goes to show that the Ikṣvāku dynasty lingered long as a ruling power, though unimportant in comparison with the neighbouring royal families.

2. *Cāṁtamūla I* (= *Śāntamūla I*).¹

Only three kings of the Ikṣvāku family of the Eastern Deccan are so far known. The first of them is Mahārāja Vāsiṣṭhiputra Cāṁtamūla. We have not yet any inscription of the time of this king. But from the epithets applied to his name in the inscriptions of his son and grandson, he appears to be a very great and powerful monarch.

Vāsiṣṭhiputra Ikṣvāku Cāṁtamūla is credited with the performance of the *agnihotra*, *agniṣṭoma*, *vājapeya* and *aśvamedha* sacrifices. It must be noted that the *Vājapeya* and the *Aśvamedha* sacrifices could be performed only by very powerful kings. According to the Satapatha-Brāhmaṇa (V. ii) the performance of the former bestowed on the performer a superior kind of kingship called *sāmrājya*, while the *Rājasūya* conferred merely the ordinary royal dignity called *rājya* (*ibid.*, i. 1. 13). According to the Āpastamba Śrauta-sūtra (XX. i. 1), only the

¹ In connection with the possible change of *ś* into *c*, may be noticed the change of *ś* into *c* in the name of two kings of the line of the Kadambas of Goa. The name Śaṣṭha or Śaṣṭhadēva has in these cases the Prakrit forms Caṭṭa, Caṭṭala, Caṭṭaya and Caṭṭayya (Bomb. Gaz., I, Pt. ii, p. 567). It must also be remembered that Tamil, a typical Dravidian language, has no letter in its alphabet corresponding to the *ś* of Sanskrit and that Sanskrit *ś* is generally represented in Tamil by *c*; e.g., Sanskrit *paśu*=Tamil *pacu*; S. *śatru*=T. *catturu*; S. *śastraka*=T. *cattakam*, etc. This is due possibly to the fact that Sanskrit *ś* is represented in Prakrit by *s*, which again is almost identical in sound with Dravidian *c*.

Sārvabhauma kings (*rājās*) could perform the Aśvamedha sacrifice.¹ King Cāmtamūla, therefore, could not have been a weak ruler, subordinate to some Sātavāhana emperor. He is also said to have been a giver of crores of gold, thousands of cows (or bullocks) and thousands of ploughs.² The king was evidently a Brahmanical Hindu. The deity he was devoted to, is mentioned as *virūpākhati-mahāsenā*. It may be noted that the Kadambas and the Cālukyas also referred to their families, in their inscriptions, as *mahāsenā-parigṛhīta*. Mahāsenā (Skanda), in the Ikṣvāku inscriptions, has been called *virūpākha-pati*, “lord of the Virūpākhas.” Vogel takes the term *virūpākha* in the sense of the hosts of which Skanda is the lord or leader. The word indicates a class of snakes in a snake-charm in the Vinayapiṭaka (ed. Oldenberg, II. 110).

King Cāmtamūla had at least two sisters. One of them named Cāmtasiri (or Cāmtisiri = Sāntaśrī or Sāntiśrī) was given in marriage to Vāsiṣṭhīputra Khamdasiri (Skandasrī) of the Pūkiya family. Khamdasiri has been called *mahāsenāpati* and *mahātalavara*, and his wife, the Ikṣvāku princess Cāmtasiri, *mahādāna-patinī* and *mahātalavarī*. The term *mahāsenāpati* (“great chief of the army,” i.e., general) denoted feudatory chieftains in charge of the *rāṣṭras* (districts) in the time of the Sātavāhanas; the same meaning seems to be applicable in the present case also. Vogel is, therefore, inclined to render the term by “duke.” Mahātalavaras are mentioned in early Jain works along with the eighteen *gāṇa-rājas*. So, this word must also be taken as a title of nobility (cf. Kalpasūtra, ed. Jacobi, 61.11.21-5). A Sanskrit commentary on the Kalpasūtra, called Subodhikā, by Vinayavijaya (Nirnaysagar Press ed., leaf 60, lines 6-7) explains

¹ See also Ray Chaudhuri, Pol. Hist. Anc. Ind., 2nd ed., pp. 105-6 and 109-10.

² It is possible that his epithet *aneka-hiranya-koti-gosatasahasra-hala-satasahasra-padāyi* refers to the fact that the king performed many times several of the sixteen *mahādānas* enumerated in the Purāṇas, such as Hiranyakarba, Hiranyakāmadhenu, Hiranyakāśva, Hiranyakāśvaratha, Gosasra and Pañcalāngala.

the term *talavara* as *talavarāḥ tuṣṭabhūpāla-pradatta-paṭṭabandha-vibhūṣita-rājasthānīyāḥ*. In the Punjab there is a subdivision of the Khetris (Kṣatriyas) called the Tālwār (Ep. Ind., XX, p. 7, n. 1). Vogel suggests a connection of the word *talavara* with Tamil *taļavāy* (general), *talaiyāri* (village-watchman) or Kanarese *taļavara*, *taļavāra* (watchman beadle). It seems from the Subodhikā and these inscriptions that the Mahātalavaras were provincial governors or subordinate rulers. I, therefore, think that the word is connected with Tamil *talaivan*, which means a king, ruler or governor (Tamil Lexicon, pub. Madras University, s.v.). The word, which is originally Dravidian, evidently penetrated into North India also. In addition to the instance of the Tālwārs of the Punjab, it may be said that it is obviously identical with the mysterious word *taravara*, which along with the word *mahāpratihāra* (great chamberlain) is found on a clay sealing excavated by Bloch at Basārh (Arch. Surv. Rep., 1903-4, 108, etc., Pl. XL. 6).

At least two children—a son and a daughter—were born to Cāmtisiri. The name of her son was Khamdasāgaramnaga (Skanda-sāgara). We do not know her daughter's name; but she is known to have been married to her cousin, king Virapurisadata. In an inscription of Nagarjunikonda, Virapurisadata has been called Cāmtisiri's *apano jāmātuka*, i.e., own son-in-law.

Another uterine sister of king Cāmtamūla was Hammasiri (Harmyaśrī), who had two daughters, Vapisiri-nikā (Vāpiśrī) and Chāthisiri (Śaṣṭhīśrī). Both Vapisiri and Chāthisiri were given in marriage to their cousin, Virapurisadata, son and successor of king Cāmtamūla.

Two children of king Cāmtamūla are known from inscriptions. One of them is his son from Mādhari (Māṭhari), named Virapurisadata, who succeeded him on the throne. The other is his daughter, Mahātalavarī Adāvi-Cātasiri.¹ The princess was

¹ The word *ādāvi* was prefixed to the name of this princess evidently in order to distinguish her from her namesakes. The word is connected either with Sanskrit *ādāvi* or Tamil *ādāvai* or *ādāvai*.

given in marriage to the Mahāsenāpati, Mahādaṇḍanāyaka Khaṇḍavisākhamṇaka (Skandavisākha) who belonged to the family of the Dhanakas. Both the sister and the brother appear to be staunch Buddhists, whereas their father was a performer of Vedic sacrifices like the *agnihotra*, *agniṣṭoma*, *vājapeya* and the *aśvamedha*.

In one of the Nagarjunikonda inscriptions dated in the 6th regnal year of Virapurisadata, we have a record of the benefactions of one Mahāsenāpatinī Cula(kṣudra)-Cāṁtisirinikā (*i.e.*, Camtiśiri, the younger), who was married to the Mahāsenāpati, Mahātalavara, Vāsiṣṭhīputra Khaṇḍacalikiremmanaka of the Hiranyaka family. The name of the Mahāsenāpatinī seems to indicate that she was an Ikṣvāku princess ; but she is explicitly called *kulahakānam vālikā*, *i.e.*, a girl born in the family of the Kulahakas. She therefore appears to me to have been the daughter of an Ikṣvāku princess married to a Kulahaka chief.

3. *Virapurisadata (Virapuruṣadatta)*.¹

King Cāṁtamūla (Sāntamūla) I, as we have already said, was succeeded on the Ikṣvāku throne by his son Virapurisadata. We have a number of inscriptions dated in the regnal years of this king. His inscriptions have been found at the Buddhist sites of Nagarjunikonda and Jaggayyapetta.

All his inscriptions begin with an adoration to Bhagavān Samyaksambuddha, *i.e.*, the Lord Buddha. (Cf. *namo bhagavato devarāja-sakatasu supabubha-bodhino savamñuno*

¹ Bühler took Purisadata as name of the king and *siri-vira* (śrī-vīra) as an adjective (*Ind. Ant.*, XI. 257) on the ground that there is no deity named Virapuruṣa and that therefore, as a name, Virapuruṣa-datta makes no sense. Sometimes, however, such adjectives are known to form an integral part of the proper name. Note, for instance, the name of Virarājendra, the Cola king, who ruled from 1063 to 1070. (Sewell, *List of Historical Inserr. of South. Ind.*, pp. 81 and 449-50.)

savasat-ānukampakasa jita-rāga-dosa-moha-vipamutasa mahāgani-vasabha-gaṁdhahathisa saṁma-sabudhasa dhātuvara-parigahitasa in some, and in one namo bhagavato ikhāku-rāja-pravara-risi-sata pabhava-vāṇsa-bhavusa deva-manusa-sava-sāta-hita-sukha-maga-desikasa jita-kāma-kodha-bhaya-harisa-tarisa-moha-dosasa dūpita-māra-bala-dapa-māna-pasamanakarasa dasabala-mahabalasa aṭhamga-maga-dhamā-caka-pavatakasa caka-lakhāna-sukumāra-sujāta-caraṇasa taruna-divasakara-prabhasa saradasi-sama-darisanasa sava-loka-cita-mahitasa budhasa).

Inscriptions appear to tell us of five queens of king Virapurisadata. Two of them were Vapisiri (*Vāpiśrī*) and Chathisiri (*Śaṣṭhiśrī*), daughters of the king's aunt (father's sister) Hammasiri (*Harmyaśrī*). A daughter of his other aunt Cāṁtisiri was also a queen of the king. Another queen appears to be the Mahādevī Rudradharabhaṭṭārikā, who has been described in the inscriptions as *ujanikāmahārāja-bālikā*. Vogel is inclined to correct the passage as *ujanikā-mahārāja-bālikā*, which may not be impossible, as in the Nagarjunikonda inscriptions there are signs of careless engraving. Vogel then identifies Ujanikā with the famous city of Ujjayinī (Prakrit Ujeni), mentioned by the Greek geographer Ptolemy (Geography, VII. i, § 63) as Ozēnē and as the capital of Tiastenes (*Caṣṭana*). The name of queen Rudradharā and those of the kings of Caṣṭana's line, such as Rudradāman (I and II), Rudrasena (I, II and III) and Rudrasimha (I, II, III and IV) may also indicate the possibility of Vogel's theory. Though there is no name like Rudradhara (of whom the queen might have been supposed to be a sister or a daughter) in the genealogy of the Sakas of Ujjain, two kings having names beginning with Rudra, reigned in the third century A. D.

1. Rudrasena I, *circa* Saka 122-135 (A. D. 200-213).
2. Rudrasena II, *circa* S. 176-196 (A.D. 254-274).

It is not altogether impossible that the Ikṣvāku queen was related to one of these kings. It may be noted in this connection

that a Nagarjunikonda inscription records the pious gift of a Saka girl, which fact possibly shows that the Ikṣvākus were friendly towards the Sakas. The currency of *dīnāra māṣakas* in their kingdom seems also to indicate their relation with the north. The *dīnāra*, according to numismatists, was a gold coin weighing about 124 grains, first struck by the Kuṣāṇ kings (of whom Caṣṭaṇa is supposed to have been a feudatory) in the first century A. D. in imitation of the Roman gold Denarius. (Bhandarkar, Carmichael Lectures, 1921, p. 181.)

In an inscription of Ehuvula (Bāhubala?) Cāṁtamūla II (Sāntamūla II), son and successor of Virapurisadata, the name of the reigning king's mother is mentioned as Mahādevī Bhaṭṭadevā. She appears, therefore, to have been another queen of Virapurisadata.

Besides the son Ehuvula Cāṁtamūla, king Virapurisadata is known to have had a daughter named Kodabalisiri (Kundavallīśrī), who is said to have been the Mahādevī (queen) of the vanavāsakamahārāja. Vanavāsakamahārāja appears to mean the king of Vanavāsī, now in the North Kanara District of the Bombay Presidency. Banavāsī is known to have been the capital of the Cuṭu Śātakarṇīs and afterwards of the Kadambas. Scholars think that the Kadambas began to rule at Banavāsī about the beginning of the fourth century A.D. It is therefore not impossible that a Cuṭu-Śātakarṇī king of Banavāsī was the husband of the Ikṣvāku princess Kodabalisiri, daughter of Virapurisadata whose inscriptions have been ascribed to the third century A. D. Matrimonial alliance with the powerful house of Ujjain and that of Banavāsī certainly strengthened the Ikṣvākus at the time of this monarch.

King Māṭharīputra Virapurisadata ruled at least for twenty years. We have inscriptions dated in the 6th, 14th, 18th and the 20th year of his reign. The following are some important inscriptions discovered at Nagarjunikonda and dated in his sixth regnal year :—

I. Record of the erection of a pillar of the Mahācetiya of Lord Buddha by Cāṁtasiri, who was the uterine sister of the king Vāsiṣṭhiputra Cāṁtamūla I, aunt (pituchā, i.e., father's sister) of king Mādharīputra Virapurisadata, wife of the Pūkiya chief Vāsiṣṭhiputra Khamḍasiri and mother of Khamḍasāgarāmaka. The act is said to have been done "for the attainment of welfare and happiness in both the worlds, and in order to attain herself the bliss of Nirvāṇa, and for the attainment of welfare and happiness by all the world."

II. Record of the erection of a stone-pillar by Vapisirinikā, daughter of Hammasiri, sister of king Cāṁtamūla I and wife of king Virapurisadata. The pillar was erected with regard to the queen's mother Hammasiri, and for the sake of attaining the bliss of *nirvāṇa* for herself; also records the completion of extension of the mahācetiya,¹ for the benefit of the Masters of the Aparamahāvinaseliya sect, by Reverend Ānanda who knew the Dīgha-nikāya and the Majjhima-nikāya by heart and who was a disciple of the Masters of the Ayira-hamgha (ārya-saṅgha). The Masters of the ārya-saṅgha are said to have been resident at Pampagāma and to have been preachers and preceptors of the Dīgha-nikāya, Majjhima-nikāya and the five Mātukas.

Dīgha-nikāya and Majjhima-nikāya are the celebrated Pāli Buddhist works. The way, however, in which the Masters of these Nikāyas are mentioned in the Nagarjunikonda inscriptions is different from that in which they are generally referred to in the Buddhist literature. It has, therefore, been conjectured by Dr. Dutt (Ind. Hist. Quart., VII. 642) that possibly the inscriptions were concerned with a Buddhist sect that was not exactly the Theravāda (the Pāli School), but had a literature and tradition very similar to the Theravāda School.

¹ Dr. Dutt says that the "period mentioned here (* the time of the Ikṣvāku inscriptions, the 3rd or the 4th cent.) relates to the subsidiary structures of the main stūpa itself—the Mahācetiya,.....must be assigned to an earlier period....." (Ind. Hist. Quart., VII. 634), Vogel, however, translates *mithapitam snom navakamay* (lit. repairs) *mahācetiyan khambhā ca thapita ti*, as "this pious work (*নবকম্প), the Mahācetiya, was completed and the pillars were erected." (Ep. Ind., XX. 17.)

Dr. Dutt further suggests that the word *mātuka* (Pāli *mātikā*, Sanskrit *mātrikā*) may be taken to be both the Vinaya and the Abhidharma Piṭakas; but that the specification of the number in *pañca-mātuka* indicates that here the Vinayapiṭaka is meant. It must be noted that five of the principal Buddhist Schools, viz., Theravāda, Mahīśāsaka, Haimavata, Sarvāstivāda and Mahāsaṅghika, had their Vinaya Piṭakas in five divisions (Przyłuski, *Le Concile de Rājagṛha*, 353 ff.).

The Avaramahāvinaseliyas (Aparamahāvanaśailīyas) have been taken to be the same as the Aparaśailīyas, whose place has been referred to by Yuan Chowang as A-fa-lo-shi-lo (Watters, *On Yuan Chowang's Travels*, II. 214). Dr. Dutt suggests (*op. cit.*, 648-9) that the Masters of the Ayira-hamgha are to be identified with the Mahāsaṅghikas, and that "the whole Buddhist establishment at Nagarjunikonda belonged to the Mahāsaṅghikas." It is, however, difficult to accept the latter suggestion in view of the fact that an inscription of the site dated in the 11th year of king Ehuvula Cāmītamūla 11 records the dedication of a vihāra to the Masters of the Mahīśāsaka sect (*Ep. Ind.*, XX. 22 : *imam khuniyam vihāra ca acariyānam mahīśāsakānam suparigāhe cātudisam saṃgham udisāya savasatānam hitasukhātham thāpitam*).

III. Record of the erection of a pillar in the Mahācetiya by Mahātalavarī Aḍavi-Cāmītasiri who was the daughter of king Cāmītamūla I, sister of king Virapurisadata and wife of the Dhanaka chief Khamdavisākhamnaka. The act is said to have been done with regard for both the houses to which she belonged and for the attainment of welfare and happiness by herself in both the worlds.

IV. Record of the erection of a stone pillar in the Mahācetiya by Mahāsenāpatinī Cula-Cāmīti-sirinikā (Kṣudra-Sāntisrī), daughter of the Kulahakas and wife of the Hirāṇyaka (Hiranyaka) chief, Khamdacadalikireṇmanaka.

V. Record of the erection of a śailastambha by Mahādevī Rudradhara-Bhaṭṭārikā who was the daughter of the king of

Ujjain and evidently the queen of Virapurisadata, for the attainment by herself of welfare and happiness and the wealth of Nirvāṇa—and also of the erection of a pillar and of the gift of 170 *dīnāra-māṣakas* by Mahātalavari Cāmtisiri (sister of king Cāmtamūla I) who belonged, by marriage, to the family of the Pūkiyas. The mention of the *dīnāra-māṣakas* ($\times \frac{1}{16}$ of a *dīnāra* in weight or value? cf. *fanam*), in an inscription found at Nagarjunikonda in the Guntur District of the Madras Presidency, is very interesting. As already stated, it is generally held that *dīnāra* is the Indian designation of some Kuṣan coins which were imitated from the Roman *denarius*. Again, the early Western Śaka Satraps according to many scholars, were subordinate to the great Kuṣan kings. As then the Ikṣvākus appear to have been matrimonially connected with the kings of Ujjain, it is not impossible that the Kuṣan coin-designation passed into the Ikṣvāku kingdom through the country of the Sakas.

VI. Record of the erection of a pillar by the Mahādevī Chaṭhisiri (Śaṣṭhīśrī), daughter of king Cāmtamūla's sister Hammasirinikā (Harmyaśrī) and wife of king Virapurisadata, for the purpose of attaining Nirvāṇa.

VII. Record of the erection of a stone-pillar by a Mahātalavari, whose name is not mentioned, but who is said to have been the wife of the Mahāsenāpati, Mahātalavara Vāsiṣṭhiputra Mahā-Khaṃdasiri (Mahā-Skandaśrī) of the Pūkiya family and the mother of the Mahāsenāpati Mahātalavara Venhusiri (Viṣṇuśrī). Vogel thinks it possible that the Vāsiṣṭhiputra Mahā-Khaṃdasiri is identical with the Pūkiya chief Khaṃdasiri, who is mentioned in some inscriptions as the husband of king Cāmtamūla's sister Cāmtisiri, mother of Khaṃda-sāgarāmṛaga. This identification makes Cāmtisiri mother of Khaṃdasāgarāmṛaga, a co-wife of the unknown Mahātalavari who was the mother of Venhusiri. It however seems to me that Mahā-Khaṃdasiri was a uterine elder brother of Khaṃdasiri. (Cf. the names Mahā-Campdamukha and Cula (*kṣudra*)-Campda-

mukha and of Mahā-Mūla and Cula-Mūla in the big Nagarjunikonda inscription.)

The Nagarjunikonda inscription dated in the 14th year of king Virapurisadata is very important. It records the building of a *cetiyaghara* (*caitya-grha*), "with a flooring of slabs, with a caitya and provided with all the necessaries" in the Culadhamma-giri-vihāra on the Śrīparvata, to the east of Vijayapuri, by a lay member Bodhisiri (Bodhiśrī), wife of Budhimnaka and daughter of Revata of Govagāma, for the acceptance (*suparigāhe*) of the Theris specially of Tambarapamṇa (Sanskrit Tāmraparnī or ὄνα, Greek Taprobane, i.e., Ceylon) and other Theris who are said to have " caused serenity and happiness" (*pasādaka*) to the people of, that is, who belonged to, Kāśmīra, Gamdhāra, Cīna, Cilāta, Tosalī, Avaramṭa, Vamga, Vanavāsi, Yavana (?), Damila (?), Palura (?) and Tambarapamṇa. It appears that these Theris (female ascetics) of Ceylon and other countries used to visit all this region for purposes of pilgrimage.¹

The countries mentioned in this connection can be easily identified.

(i) Kāśmīra is the famous country of North-western India still known under its ancient name. The boundary of the country, however, was not the same in all ages.

(ii) The kingdom of Gamdhāra, according to the Rāmāyaṇa (VII, 113.11, 114.11), lay *sindhor=ubhayataḥ pārsve* (on both sides of the Indus). We know from the Epics and the Purāṇas that the great cities of Takṣaśilā and Puṣkalāvati belonged to the Gamdhāra kingdom. The ruins of the ancient city of Takṣaśilā are situated immediately to the east of Sarai-kala, a railway junction twenty miles to the north-west of Riwalpindi in the Punjab. Puṣkalāvati (Prakrit Pukkalaoti and Greek Peukelaotis) has now been correctly identified with

¹ Dr. Nalinaksha Dutt in a learned paper in *Ind. Hist. Quart.* (VII. 633ff.) has objected to Dr. Vogel's translation of the term *pasādaka* as "one who converts." According to him the word refers to the saintly lives of the nuns that bring joy and peace to the people of their countries.

modern Prang and Charsadda on the Swat river, seventeen miles to the north-east of Peshawar (Schoff, *Periplus*, 183-4). The *janapada* of Gamdhāra appears to have included the Rawalpindi District of the Punjab and the Peshawar District of the North-West Frontier Province.

(iii) & (iv) Cīna and Cilāta were names of the countries inhabited by Mongoloid peoples and situated to the east and north-east of India (*cf.* pūrve kirātā yasy = ānte paścime yavanāś = tathā). According to the Mahābhārata (V. 19.15), Bhagadatta, king of Prāgjyotiṣa or Assam, marshalled the Cīnas and the Kirātas in the great battle of Kurukṣetra. The name Cīna is famous in Sanskrit literature. Cilāta is the same as Sanskrit Kirāta and Greek Kirrádai (*Periplus*, 62, Ptolemy, VII. 2.2), Kirradia (Ptolemy, VII. 2.16) or Tiladai (*ib.*, VII. 2.15). In the Milindapañho there are two passages which mention a number of places that were used to be visited by merchants for purposes of trade. In both these lists we have the mention of Cīna-Cilāta. The printed text of the Milindapañho, however, reads Cīna-vilāta ; but Sylvain Lévi (*Etudes Asiatique*, II. 24) has rightly contended that Vilāta is an error for Cilāta. The peoples of this country are described by the *Periplus* as a "race of men with flattened nose, very savage," and by Ptolemy as dwarfs with flat face and white skin.

(v) The city of Tosala or Tosali is to be identified with modern Dhauli (Puri District, Orissa), where a set of the Fourteen Rock Edicts of Aśoka have been found. The name Dhauli appears to have sprung from Tosalī through the intermediate forms Tohali and Dhoali. In literature, the country of Tosala is always associated with (South) Kosala (modern Raipur, Bilaspur and Sambalpur Districts). Some mediaeval inscriptions (*Ep. Ind.*, IX. 286 ; XV. 2) mention Uttara-Tosala and Dakṣina-Tosala. The country is to be identified with the Puri District, and parts of the adjoining districts, of Orissa.

The city is generally taken to be the same as the Tosalei metropolis, which was, according to the Geography of Ptolemy,

situated in the trans-Gangetic India. Vogel may be right in identifying it with Dosara of Ptolemy and Dosarene of the *Periplus*.

(vi) Avaramta (Aparānta) is now generally identified with the Northern Konkan. It had its capital at Sūrpāraka, modern Sopārā in the Thana District, Bombay Presidency.

(vii) Vogel appears to be wrong when he says that “Vaṅga is the ancient name of Bengal.” It seems to be impossible that the whole of the modern presidency of Bengal was meant by the term Vamga in the third century A.D. The country of Vamga may be identified with Central and Eastern Bengal, along with a part of Southern Bengal (Ray Chaudhuri, *Ind. Antiquities*, 184 ff.).

(viii) The country of Vanavāśī (B. Gaz., I. ii. 278, n. 2) appears to be the same as modern Kanara. The capital is to be identified with the modern town of Banavāśī in the North Kanara District of the Bombay Presidency. Vogel seems to be wrong in identifying it with “Banavāśī, a village or small town in the Shimoga District of the Mysore State” (*Ep. Ind.*, XX. 8).

(ix) The exact situation of the Yavana country (that is, the country inhabited by the Yavanas or Yaunas, the Greeks) is not yet known. It is not certain whether Yavana means here the ancient dominions of the Greek emperor of Syria or the land of the Yonas, referred to in the third Rock Edict of Aśoka. According to the *Mahābhārata* (XII. 207. 43), we know, the country of the Yaunas lay in the Uttarāpatha. The city of Alasanda, mentioned in the *Mahāvāṃsa*, has been identified by Geiger with Alexandria, founded by Alexander the Great near Kabul (Geiger, *Mahāvāṃsa*, 194). According to the *Milindapañho* the Indo-Greek king Minander (Milinda) was born at Kalasigāma in the *dipa* of Alasanda or Alexandria (Trenckner, *Milindapañho*, 82-3). The capital where Menander ruled was at Śākala, modern Sialkot in the Punjab. The Indian Yavana country may possibly be the same as Alasanda of the Indian literature, which appears to have been somewhere about modern Afghanistan.

(x) & (xi) The reading of the names Damila and Palura is not quite certain. Damila, however, can be no other than the country of the Tamil people. Palura, if the reading be accepted, may be identified with Ptolemy's Paloura (Geography, VII. i, § 16), which has been taken to be the Dravidian form of the name of the famous city, Dantapura, the ancient capital of Kaliṅga. Cf. Pal (tooth)+ur (city) = Danta (tooth)+pura (city). But we cannot be definite on this point. First because the reading is doubtful ; secondly the connection of the name with Dantapura is conjectural ; and thirdly Dantapura is known to be a city, while all the names in our list appear to designate countries or provinces. The site of Dantapura has not been definitely identified. We have reference to the Dantapura-vāsaka in the Purle plates of the Gaṅga king Indravarman (6th century A.D.) edited in *Ep. Ind.*, XIV, p. 361, where it has been suggested that the name survives in that of the fort of Dantavaktra near Chicacole in the Ganjam District of the Madras Presidency. The Jirjungi copper-plate grant of Indravarman was also issued from Dantapura.

Srīparvata (Nagarjunikonda according to H. Sastri), where the Cula-dhammagiri-vihāra was built, appears to be the same as the Sriśaila in the Kurnool District, Madras Presidency. Vijayapurī (the Ikṣvāku capital, according to Jayaswal, *Hist. Ind.*, p. 173, which was situated to the west of Srīparvata cannot be satisfactorily identified.

The same *upāsikā* Bodhisiri here claims also the construction of a caitya-hall at the Kulaha-vihāra ; a shrine for the Bodddhi-tree at the Sīhala-vihāra ; one cell at the Great Dhammagiri ; a *maṇḍapa*-pillar at the Mahāvihāra ; a hall for religious practices at Devagiri ; a tank, a veranda and a *maṇḍapa* at Puvasela ; a stone-*maṇḍapa* at the eastern gate of the Great Caitya at Kapṭakasela ; three cells at Hirumuṭhuva ; seven cells at Papilā ; and a stone-*maṇḍava* at Puphagiri.

All the localities mentioned in this connection cannot be satisfactorily identified. The name of the Kulahavihāra reminds

us of the Kulahaka family, which, as we have suggested above, was probably matrimonially connected with the Ikṣvākus. The Sīhala (Sīmhalā, *i.e.*, Ceylon)-Vihāra appears to have been a convent ?“ founded either by a Singhalese, or more probably, for the accommodation of Singhalese monks.” This Sīhala-vihāra contained a shrine for the Bodhi-tree (*Bodhivṛksa-prāsāda*). It is interesting to note that the Bodhi-tree is a necessary adjunct of the Ceylonese Vihāras even at the present time. Puvasela (Purvaśaila), as has been discussed above, is mentioned by Ywan Chowang as Fu-p'o-shi-lo, where resided a Buddhist sect known as the Purvaśailiyas. The Pūrvaśailīya ācāryas have been referred to in a fragmentary pillar inscription discovered at Alluru, of which we shall have occasion to speak afterwards. Kanṭakasela has been rightly taken to be the same as the emporium Kantakassula mentioned by Ptolemy (Geography, VII. i, § 15) immediately after the river Maisōlos (the Krishna) in the land called Maisōlia (Masulipattan). Kanṭakassula has been identified with the town of Ghanṭaśālā, which lies between the village of Guduru and the mouth of the Krishna (*cf.* Ptolemy’s location : Mouth of the river Maisōlos.....Kantakassula, a mart.....Koddoura, *loc. cit.*). Mr. Rea discovered (South Ind. Antiquities, p. 132) at this place the remains of a *stūpa* which, he thought, date from the beginning of the Christian era. The remains almost certainly belong to the Great Caitya mentioned in this inscription.

The Nagarjunikonda inscription dated in the 18th year of king Virapurisadata records the building of “a stone-shrine, surrounded by a cloister and provided with every necessary at the foot of the Mahācetiya” for the acceptance of the Aparamahā-vinaseliyas, by the Mahātalavari Cāmtisiri, sister of king Cāmtamūla I, wife of the Pūkiya chief Vāsiṣṭhiputra Khamdasiri and mother of Khamdasāgaramnaga, desiring the longevity, strength and victory of her own son-in-law (*apano jāmatuka*), king Māṭhariputra Virapurisadata, and for the attainment of *hita* and *sukha* in both the worlds by herself. As we have said above, it

is to be noted that an inscription of the 6th year of king Virapurisadata calls Lady Cāmtisiri the king's *pituchā* (father's sister); here, however, the king is represented as the son-in-law of the lady. Vogel therefore thinks that Virapurisadata married his cousin, a daughter of his aunt Cāmtisiri, between the 6th and the 18th year of his reign.

The Jaggayyapetta inscriptions are dated in the 20th year of king Virapurisadata. The royal genealogy is not given in these inscriptions. They record the erection of five *āyaka-thambhas* (entrance-pillars) at the eastern gate of the Mahā-cetiya of Lord Buddha, by the manufacturer (*avesanī*) Sudatha (Siddhārtha) resident of the village of Mahā-Kādūra and son of the manufacturer Nakacada (Nāka- or Nāga-candra) of Nadatūra in the Kamaka-rāṭha. Kamakaraṭha seems to be the same as the Karmarāṣṭra of later inscriptions. As for the suffix *-ka*, we may notice the passages *ujanikā-mahārā(ja)-bālikā* and *vanavāsaka-mahārāja*, etc., of the Nagarjunikonda inscriptions. Karmarāṣṭra has been identified with northern part of the Nellore and southern part of the Guntur Districts.

4. *Ehuvula (Bāhubala ?) Cāmtamūla, II. (Sāntamūla) II.*

King Māṭharīputra Virapurisadata was succeeded by his son Ehuvula Cāmtamūla, born of queen Vāsiṣṭhi Bhaṭidevā. It is interesting to note that the custom of naming a grandson after his grandfather was prevalent among the Southern Ikṣvākus, as it was in many other ruling dynasties of ancient India. It has been noticed by Dr. Hirananda Sastri (*Ep. Ind.*, XX, p. 6, n. 2), that this custom is sanctioned by Patañjali's *Mahābhāṣya* (I. i. 1) where we have *tripuruṣānukām nāmakrtām kuryāt*; Kayyaṭa on this passage has *pitā tasya ye trayāḥ puruṣāḥ = tān = anukāyat = abhiḍhatte.* .

Two inscriptions of king Vāsiṣṭhīputra Ehuvula Cāmtamūla II have so far been discovered, one at Nagarjunikonda and the other at the adjacent village of Kottampalugu. The Nagarjunikonda inscription dated in the 2nd year of the king, records the establishment of a *vihāra* by the Mahādevī Bhūtaidevā, daughter-in-law of king Vāsiṣṭhīputra Cāmtamūla I, wife of king Mātharīputra Virapurisadata and mother of king Vāsiṣṭhīputra Ehuvula Cāmtamūla II, for the *ācāryas* of the Bahusutīya sect. The Bahusutīyas are a branch of the Mahāsaṃghikas.

The Kottampalugu inscription, dated in the 11th year of king Ehuvula Cāmtamūla II, records the construction of a *vihāra* by Kodabalisiri (Kundavallīśrī), Mahādevī of the Mahārāja of Banavāsaka, grand-daughter of king Cāmtamūla I, daughter of king Virapurisadata and sister of king Ehuvula Cāmtamūla II, for the acceptance of the *ācāryas* of the Mahiśāsaka sect. The Ikṣvāku princess Kodabalisiri, as we have noticed above, was possibly the queen of a Cuṭu-Śātakarṇi king of Banavāsī. The Buddhist sect of the Mahiśāsakas are mentioned also in other early inscriptions. A samghārāma is known to have been built for the Mahiśāsaka *ācāryas* somewhere in the Punjab, when the Hūṇa king Toramāna was ruling (*Ep. Ind.*, I. 239).

5. Importance of the Ikṣvāku Period.

The Ikṣvāku inscriptions discovered at Jaggayyapetta in the Kistna District and Nagarjunikonda (including Kottampalugu) in the Guntur District are of great importance to the history of Buddhism.

Dr. Dutt thinks (*Ind. Hist. Quart.*, V. 794) that the site of Nagarjunikonda was a famous resort of Buddhism in the early years of the Christian era and, probably, also an early centre of Mahāyāna. "Just as Bodh-Gaya grew up on the bank

of the Nerañjanā as a very early centre of Hīnayāna and a place of pilgrimage for the early Buddhists, so also did Amarāvatī (extending to Jaggayyapetta) and Nagarjunikonda on the bank of the Kṛṣṇā (including the tributary Paler) as a flourishing centre of proto-Mahāyāna in the pre-Christian and the early Christian era and a place of pilgrimage for the later Buddhists.” The construction of the Amarāvatī *stūpa*, with its enlargements, decorations and railings, is placed between *circa* 2nd century B.C. and 2nd century A.D. (Burgess, Arch. Surv. South. Ind., 122-3) while that of the *stūpas* of Jaggayyapetta and Nagarjunikonda has been placed in or before the 3rd or the 4th century A.D. (*Ep. Ind.*, XX. 2 ; *Ind. Hist. Quart.*, VII. 634).

The *stūpas* of Amarāvatī appear to have been built at the time of the Sātavāhana suzerainty. That the later Sātavāhanas, who were possibly Brahmanical in faith, showed great favour towards the Buddhists is known to all readers of the Sātavāhana inscriptions. They appear to have strong Buddhist leaning, if some of them were not actually Buddhists themselves. The successors of the later Sātavāhanas, the early Ikṣvākus, were however staunch followers of the Brahmanical faith. Vāsiṣṭhīputra Cāmtamūla I, as we have seen, has been credited with the performance of the *agnihotra*, *agniṣṭoma*, *vājapeya* and the *asvamedha* sacrifices. Evidently Buddhism suffered during the period of this king.

With the accession of Māṭharīputra Virapurisadata on the Ikṣvāku throne, a new era began with the Buddhists of the Kistna-Guntur region. The great *stūpas* of Jaggayyapetta and Nagarjunikonda were built, repaired or extended, and Buddhist Therīs were coming for pilgrimage from all the Buddhist countries of the world to this centre of Buddhism. The mention of Sihala-vihāra and of the dedication of a *cetiya*-ghara specially to the Therīs of Ceylon points to the good relation that must have existed between the Buddhist communities of the Ikṣvāku country and their co-religionists of the Island of Ceylon. Thus we see, Buddhism was in its heyday at the time of the later Ikṣvākus.

The existence of such relations among the Buddhist communities of the different countries can be accounted for from the sea-trade, which was carried on between the ports of Ceylon and other countries on the one hand and those situated on the mouths of the Krishna and the Godavari on the other. Kāntakasela, the great emporium on the bank of the Krishṇa, appears to have played a large part in this international trade. Dr. Vogel seems to be right in thinking that this trade was largely responsible for the flourishing state of Buddhism in this part of India (*Ep. Ind.*, XX. 10).

The collapse of Buddhism in the lower Krishna valley appears to have begun with the decline of the Ikṣvāku power. As a cause of this collapse, Vogel refers to the “rising of the powerful dynasties devoted to Brahmanism like the Pallava in the south and the Chālukya in the west.” It must, however, also be added that the immediate successors of the Ikṣvākus in the rule of the Andhra-deśa were all staunch Brahmanists. After the decline of the Ikṣvākus, we know, the Kistna-Guntur region passed to the Brhatphalāyanas and the Pallavas. Both of these dynasties were Brahmanical Hindus, and the latter claimed to have performed the *aśvamedha* sacrifice, which is evidently a sign of aggressive Hinduism. Brhatphalāyana Jayavarman, as we shall see, was a devotee of Lord Maheśvara. The Pallava king Sivaskandavarman is known to have performed not only the great Brahmanical sacrifices, *Aśvamedha* and *Agniṣṭoma*, but also the *Vājapeya* (*Ep. Ind.*, I. 2). Not a single king of the Śalaṅkāyana and the Viṣṇukuṇḍin line is as yet known to have Buddhist leanings. On the contrary, we have a Śalaṅkāyana king who performed one *Aśvamedha* sacrifice and a Viṣṇukuṇḍin king who performed no less than eleven *Aśvamedhas* and thousand *Agniṣṭomas*. Nevertheless Buddhism did not die away all at once. The Buddhist faith of an Ānanda king of Guntur, who appears to have ruled about the end of the 4th century or the beginning of the 5th, clearly shows that Buddhism lingered in the Andhra country, although the glory it enjoyed at the time

of the later Sātavāhanas and the Ikṣvākus was long a thing of the past. Later traces of Buddhism in the Amarāvatī region are found in the Amarāvatī pillar inscription (S. Ind. Inscr., I, pp. 26-7) of the Pallava chief Śimhavarman (*c. A. D. 1100*) probably a vassal of Kulottunga Cola I (Sewell, List of Hist. Inscr. of South. Ind., p. 90) and another Amarāvatī pillar inscription of Koṭa Keta II, from which we know that “Buddhist worship at the old *stūpa* was still maintained and Keta II gave grants in its support” (Ep. Ind., VI. 146; Sewell, *op. cit.*, s.v. A. D. 1182). Another inscription records the grant of a lamp to the Buddhist *stūpa* of Amarāvatī made by Bayyalā, daughter of the Nāṭavāḍi chief Rudra. This also shows that Buddhist worship was maintained in the Andhra country as late as A. D. 1234 (Sewell, *op. cit.*, p. 141).

CHAPTER II

THE BR̥HATPHALAYANAS.

1. Jayarāmī (Jayavarman).

A copper-plate grant of a rājā (mahārāja, according to the legend of the seal attached to the plates) named Jayavarman, who belonged to the Br̥hatphalāyana gotra, was discovered at Kondamudi in the Tenali tāluka of the Kistna District (*Ep. Ind.*, VI.315).¹ No other king of this family is as yet known from inscriptions or other sources.

As regards the date of king Jayavarman, Hultzsch says (*loc. cit.*) : “The alphabet of his inscription shows that he must have lived in the same period as the Pallava king Sivaskandavarman, who issued the Mayidavolu plates. Further, the language and phraseology of the inscription are so similar to the Nasik inscriptions of Gautamīputra Śātakarī (Nos. 4 and 5) and Vāsiṣṭhiputra Pulumāyi (No. 3) that Jayavarman’s date cannot have been very distant from that of those two Andhra kings. The archaic Sanskrit alphabet of the seal of the new plates is corroborative evidence in the same direction.” King Jayavarman Br̥hatphalāyana may, then, be placed in the closing years of the 3rd or the early years of the 4th century A.D.

The grant was issued in the 10th year of Jayavarman’s reign from the *vijaya-skandhāvāra* (victorious camp) of Kudūra (modern Guduru, 4 miles north-west of Masulipattan), which

¹ According to Sewell (*Hist. Ins. South. Ind.*, p. 17), “it is just possible that it (i.e. the name *Jayavarman*) may have been a name assumed by Bappa (i.e., father of Pallava Sivaskandavarman).” The suggestion however is utterly untenable in view of the fact that Jayavarman of the Kondamudi plates belonged to the Br̥hatphalāyana gotra while the Pallavas are known to have belonged to the Bhāraivāja gotra.

seems to be the same as Koddoura, mentioned in the Geography of Ptolemy (VII. i, § 15) as a place in Maisôlia (Masulipattan).¹

The Kondamudi plates record an order of king Jayavarman, who has been described as *mahessara-pâda-parigahita* and was, therefore, evidently a devotee of Siva (Maheśvara), to the *vâpata* (*vyâprta*) at Kudûra to execute the grant of a Brahmadeya (religious gift to Brahmins) made by the king. *Vyâprta*, according to Heineander, is the same as *niyogin*, *âyukta* and *karmasacîra* (cf. *niyogî karmasacîra âyukto vyâprtaś=ca saḥ*). A *vyâprta* was therefore an executive officer. The Brahmadeya was made of the village of Pâmtura (Panduru in the Bandar or Masulipattan tâluka according to Dubreuil) in Kudûrahâra, i.e., the âhâra or district of Kudûra (cf. Sâtavâhani-hâra in the Myakadoni inscription of Pulumâvi, *Ep. Ind.*, XIV. 154). It is therefore apparent that the *vyâprta* was in charge of the Kudûra District and held his office at the chief town of the same name.

Scholars think that Kudûrahâra of the Kondamudi grant is the same as the Kudrâhâra-*viṣaya* of the Sâlaṅkâyan inscriptions and Gudrâhâra, Gudrâvâra and Gudrâra of later inscriptions. The identification may not be impossible. It is, in that case, necessary to think that Kudûrahâra which originally meant "the âhâra of Kudûra" gradually became used as a place-name itself; because Kudrâhâra (not Kudûra) was the name of the *viṣaya* (province) at the time of the Sâlaṅkâyanas.² According to Dubreuil this province comprised roughly the present Bandar (Masulipattan) tâluka. This region, occupied once by the Brhatphalâyanas was, as we shall see later on, in the possession of the Sâlaṅkâyanas of Venâgi in the 5th century A.D.

The recipients of the Brahmadeya were the following Brahmins :—*Gotama-gota-jâyâpara*³ Savagataja (Sarvaguptârya),

¹ The town of Kudûra is also mentioned in an inscription of Amaravati (see Lüders' List, No. 1295).

² Compare *Khetaka âhâra* and *Khetakâhâra viṣaya* (Bomb. Gaz., Vol. I, Pt. ii, p. 382).

³ The word *jâyâpara*, according to Sanskrit lexicons, means *kâmuka*, which meaning does not seem applicable here. Hultzsch thinks that the passage possibly means a "grhaṣṭha belonging to the Gautama-gotra" (*Ep. Ind.*, VI. 315).

Savigija of the Tānava (Tānavya)gotra; Goginaja and Bhavaṁnaja of the Kodina (Kaupñdinya) gotra; Rudavēṇhuja (Rudraviṣṇvārya) of the Bhāradāya (Bhāradvāja) gotra ; Rudaghosaja (Rudraghosārya) of the Opamaṁnava (Aupamanyava) gotra; Īsaradataja (Īvaradattārya) of the Kāmñhāyaṇa (Kārṣṇāyaṇa) gotra; and Khaṇḍarudaja (Skandarudrārya) of the Kosika (Kauśika) gotra. The affix *-aja* (=ārya) added to the names of these Brāhmans survives even to the present time in Madrasī names like Veṅkāvya (Venkārya), Rāmāyya (=Rāmārya), etc., and in the surname Āyyar (=Ārya).

The *Parihāras* (immunities) granted are interesting to note. They are *apāvesa*, *anomasa*, *alonakhādaka*, *araṭhasavinayika*, etc. *Apāvesa* is evidently the same as *abhaṭaprarēṣa* (exemption from the entrance of an army) of other South Indian inscriptions. *Anomasa* has been taken to mean “exemption from being meddled with.” The third *Parihāra*, *rīz.*, *alonakhādaka*, made the village free from being dug for salt. The salt-mines of the country were evidently property of the king. The term *araṭhasavinayika* has been translated by Senart as “not to be interfered by the District Police.” (*Below*, p. 52).

The grant was executed by the *mahālagirara*, *mahādanḍānāyaka* (field-marshall) Bhāpahānavāṇīma. *Mahātagirara*, according to Vogel, is a mistake for Mahātalavara which occurs so many times in the inscriptions of the Ikṣvākus (see *above*, pp. 15f.). Possibly it was the custom for an official to write down the oral order of the king (*ariyena ānatām*). The grant is said to have been signed by the king himself (*sayam chato*).

The seal attached to the Kondamudi plates has, in the centre, a trident in relief, the handle of which seems to end in an arrow, a bow (?), the crescent of the moon and an indistinct symbol of roughly triangular shape. Round the margin of the seal runs a Sanskrit legend in archaic characters, which differ totally from those employed on the plates. (*Ep. Ind.*, VI. 315.)

in about 300 A.D. The capital of the Br̥hatphalāyanas seems therefore not to be very far from the Masulipattan region.

In this connection it is very interesting to note that Ptolemy makes mention of the *metropolis of Pitundra* ($135^{\circ} 12'$) in the country of the people called Maisōloī (Geog., VII. i, § 93). In *op. cit.*, § 79, the Maisōloī are placed near the country of the Salakēnoī (= Sañkāyanas of Veṅgī) and in § 15, their country has been called Maisōlia (= Masulipattan). Their metropolis, Pitundra, has been identified by Prof. Sylvain Lévi with Pihunda of the Uttarādhyāyana and Pithuḍa of the Hathigumpha inscription of king Khāravela (*Ind. Ant.*, 1926, 145). We have seen that the Br̥hatphalāyanas ruled over the Masulipattan region, which is to be identified with Maisōlia of Ptolemy. Pitundra, the capital of Maisōlia in the time of Ptolemy (middle of the 2nd cent.) appears therefore almost certainly to have been the capital of the family of Jayavarman Br̥hatphalāyana, ruler of the Masulipattan region in the end of the 3rd or the beginning of the 4th century.

If we now accept the reading *pithuḍa* in a passage of the Hathigumpha inscription (line 11) of Khāravela and the interpretation that king Khāravela of Kalinga besieged the city of Pithuda, it is not impossible to think that the Br̥hatphalāyanas were ruling at Pithuḍa=Pitundra as early as the time of Khāravela (2nd or 1st century B.C.).

APPENDIX A.

DOES THE ALLURU INSCRIPTION SPEAK OF A KING CALLED SANA?

In the year 1921, Mr. N. L. Rao discovered at Alluru (Nandigrama tāluka of the Kistna District) five miles from Yerrupalem, on the Bezwada-Hyderabad Railway line, an old Brāhmī inscription and the remains of an old Buddhist stūpa, at about two furlongs to the west of the village. A facsimile of the inscription (No. 331 of 1924), along with a short note on it, was published in the Annual Report on South Indian Epigraphy for the year ending 31st March, 1921. The inscription was afterwards edited by Dr. R. Shamasastri in the *Calcutta Review* for July, 1925. According to the transcript published in the Review, the epigraph refers to *jayadharma* (line 2), and *cāradharma* (line 5), and to Sana, king of the Ayis (lines 16-7), who is supposed to be the grantor of some gifts. The Report rightly says that the inscription may be palaeographically assigned to the 2nd century A.D. If, then, Dr. Shamasastri's reading and interpretation be correct, a king called Sana ruled over some parts, at least, of the Kistna District in about that period, i.e., a little before the time of Jayavarman Brāhatphalāyana.

It will, however, be seen from the facsimile that the transcript published in the *Calcutta Review* is faulty in many places, and the words read as *jayadhamma* and *cāradhamma* here, are clearly *deyadhamma* (pious gift) and *cāraṭhema* (?) respectively. Here, however, we shall only examine the passage where the name of the king has been read.

The Alluru inscription is very important from the palaeographical point of view. Though it is a fragment, all the letters that have been preserved are perfectly legible; and an interesting point is that in lines 7 and 13 we have a peculiar form —[*N*] —.

This figure has been taken to be **়** both in the Report and in the Review.

According to the report the inscription records the gift of “a certain Mahātalavara accompanied by his wife, son and daughter-in-law.” Evidently the Report reads in line 16 : *sabhāriyasa saputakasa sanasakasa* and finds in the last word a Prakrit corruption of the Sanskrit word *snuṣā* (daughter-in-law). In the transcript of the *Calcutta Review*, the last word of the passage has been read as *sanasa kata* (made by Sana). The letter after **়** is certainly **়**; but the letter after *ana* is that interesting figure we have referred to above.

I have no doubt that the letter which has been read as **়**, is anything but that. The letter **়** occurs many times in the inscription and in all cases the right side of the letter is prolonged upward to about the same height as that of the left side — [়]—. It is clear that this form of **়**, with the right side considerably raised upward, has been purposely used by the scribe to avoid a confusion between this letter and the **়**-like form already referred to, which occurs twice in the inscription. There can hardly be any doubt that the **়**-like form is to be read as **ৰ**. It is certainly the original form from which the forms **ঢ** (=**ৰ**), **ণ** (=**ৰ**), etc., of later inscriptions were developed. I, therefore, read line 16 of the Alluru inscription as *eta sabhāriyasa saputakasa sanatukasa*. In the last word, then, we get *naptṛ* (grandson) and not *snuṣā* (daughter-in-law), and the word really means “accompanied by (his) grandson” and not “accompanied by his daughter-in-law.” From what has been said, it is clear that there is not the slightest reference to any person named Sana in line 16 of the Alluru inscription.¹ As regards the passage *ayirāna* (line 17), interpreted as “the king of the Ayis,” it may be left out without any serious consideration. The line

¹ It must be noted that in line 7, where also this form of **়** occurs, the word has been read in the *Calcutta Review* as *casarisa* and has been translated as “twenty-six.” I do not know how the word *casarisa* can mean twenty-six. The word is certainly *catuvisa*, that is, twenty-four.

(line 17) *ayirāna puvaseliyāna nigāyasa* should certainly be *āryānām pūrvaśailīyānām nikāyasya* in Sanskrit. Cf. *ayira-hamgha*=Sanskrit *āryasamgha* in the Nagarjunikonda inscriptions.

Though it does not mention the name of any king, the Alluru inscription is important to the student of the history of South Indian Buddhism. It records the gift of lands and some other things to the *nikāya* of the *pūrvaśailīya āryas*. The *Pūrraśailā* or *Pūrvaśilā* has been mentioned by the Chinese pilgrim Yuan Chwang as *Fu-p'o-shih-lo* (Watters, On Yuan Chwang's Travels in India, II. 214), and in the inscription F. of Nagarjunikonda as *Puvasela* (Ep. Ind., XX. 22). The grantor of the gifts is a certain Mahātalavara which word, as we have already seen, occurs several times in the Nagarjunikonda inscriptions and which probably means "a governor." (Tamil Lexicon, pub. Madras University, s.v. *talaivāñ*.) The gifts appear to be in the shape of some *nirartanas*¹ of land, cows (*gavi*), bullocks and carts (*balivadha-sakaṭa*), men-servants and women-servants (*dāsi-dāsa*), pans (*kubhi-kaṭāha*), iron-vessels (*lohiyc*=Sanskrit *lohičā*), vessels made of bell-metal (*kasasa bhāyanā*), etc., etc. There are also references to the dedication of a *taṭāka* (pond), of *kārṣāpanas* and of an *akṣayanīti* (permanent endowment) of a thousand *purāṇas* (*purāṇa-sahasa*).

¹ According to Kauṭilya's Arthaśāstra, II. 20, one *nirartana* appears to have been 240 × 240 square cubits. According to a commentator of the Arthaśāstra, however, it was 120 × 120 square cubits only. Whereas the *daṇḍa* (rod) is equal to 8 cubits according to Kauṭilya, it is equal only to 4 cubits according to the commentator. It may be conjectured that the measuring rod was 8 cubits long in some parts of ancient India, while in other parts it was only 4 cubits long. Measuring rods are not uniform in all the provinces or districts of India even at the present day.

For *daṇḍa*=6 ft. (4 cubits), see Fleet's note at p. 541 of the Eng. Tran. of the Arthaśāstra (1st ed.), by Shamaśastry.

CHAPTER III

THE ĀNANDAS.

1. *Hiraṇyagarbha*.¹

As the word *Hiraṇyagarbha* has some bearing on the question of the genealogy of the Ānandas, we shall deal with this term first.

According to Sanskrit Lexicons, the word *Hiraṇyagarbha* has two principal meanings. First, it is a well-known epithet of Lord Brahman; secondly, it is the name of one of the *sodasa-mahādāna*, i.e., the sixteen Great Gifts, which are enumerated and explained in books like the Matsya-Purāṇa, Hemādri's Vratakhaṇḍa and Vallālasena's Dānasāgara. The sixteen *mahā-dānas* are *dāna* (offering) of the following things :—

- | | |
|---------------------|---------------------|
| 1. Tulāpuruṣa | 9. Dharā |
| 2. Hiraṇyagarbha | 10. Hiraṇyāśvaratha |
| 3. Brahmāṇḍa | 11. Hemahastiratha |
| 4. Kalpapādapa | 12. Viṣṇucakra |
| 5. Gosahasra | 13. Kalpalatā |
| 6. Hiraṇyakāmadhenu | 14. Saptasāgara |
| 7. Hiraṇyāśva | 15. Ratnadhenu |
| 8. Pañcalāṅgala | 16. Mahābhūtaghaṭa |

These names are more or less of a technical character. They have been explained in full details in the Mahādānāvarta section of the Dānasāgara, Chapter V of the Vratakhaṇḍa and Chapters 247 ff. of the Matsya-Purāṇa.

The word *Hiraṇyagarbha* occurs several times in the inscriptions of some South Indian kings. In the Gorantla

¹ This paper has been published in J.R.A.S., July, 1934. A paper explaining the term *hiranyagarbha* was published by me in the *Bhāratavarṣa* (Bengali), Bhādra, 1340 B.S., p. 393 f.

inscription (Ind. Ant., IX. 102f.), king Attivarman is called *aprameya-hiranyagarbha-prasava*, which phrase was translated by Fleet, the editor of the Gorantla inscription, as “ who is the posterity of the inscrutable (god) Hiranyagarbha,” i.e., Brahman. In the Mahakuta pillar inscription of the Cālukya king Maṅgaleśa (*ibid.*, XIX. 9ff.) we have the passage *hiranyagarbha-sambhūta*. Here also Fleet, who edited the inscription, translated the phrase as “ who was descended from (the god) Hiranyagarbha (Brahman).” It must be noticed that only particular kings have been connected with Hiranyagarbha in the inscriptions of their respective families. If Fleet’s interpretation is correct, we should have found other kings of the family—wherein one king has been called *Hiranyagarbha-sambhūta*—with titles of the same significance. Moreover, when we notice that, in the Mahakuta pillar inscription, this epithet is given only to Pulakesīn I and not to Jayasimha, the first king mentioned, nor to Maṅgaleśa, the reigning monarch, there remains no doubt that Fleet’s theory is unjustifiable. I, therefore, hold with Hultzsch that the word *Hiranyagarbha*, in these inscriptions, signifies the second of the sixteen *Mahādānas* or Great Gifts.

While editing the Mattepad plates of Dāmodaravarman (Ep. Ind., XVII. 328ff.), Hultzsch remarked : “ A similar feat is ascribed to king Attivarman in another copper-plate grant from the Guntur District, where I translate the epithet *aprameya-Hiranyagarbha-prasavena* by ‘ who is a producer of (i.e., who has performed) innumerable Hiranyagarbhas.’ Hultzsch, here, evidently takes the passage *hiranyagarbha-prasava* as a case of the *Śaṣṭhi-tatpuruṣa* compound, making it mean “ *prasava* (origin, producer) of the Hiranyagarbha.” But he was in difficulty with the word *Hiranyagarbha-prasūta*, which occurs in the Ipur grant (No. 1) of the Viṣṇukuṇḍin king Mādhavavarman I (*ibid.*, p. 335f.). As *prasūta* is an adjective, it cannot make a case of the *Śaṣṭhi-tatpuruṣa* compound. Hultzsch, therefore, had to correct the passage as *Hiranyagarbha-prasūti*, i.e., *prasūti* (origin, producer) of the Hiranyagarbha (*ibid.*, p. 336, fn. 7). But when we notice

that the epithet *Hiranya-garba-prasūta* also occurs in the Polamuru plates of the same Viṣṇukuṇḍin king (Journ. Andhra Hist. Res. Soc., VI. 17ff.), and further that the Mahakuta pillar inscription has *Hiranya-garba-sambhūta*, there can be no doubt that Hultzsch is wrong in taking the passage *Hiranya-garba-prasava* as a case of the *Śaṣṭhī-tatpuruṣa* compound. The words *Hiranya-garba-prasūta* and *Hiranya-garba-sambhūta* are certainly examples of the *Pañcamī-tatpuruṣa* compound and mean “born of the *Hiranya-garba*.” The word *Hiranya-garba-prasava* must also mean the same thing. I, therefore, take it as a case of the *Bahuvrihi* compound meaning “one whose *prasava* (origin, producer, progenitor) is the *Hiranya-garba*.” But how can a king be born of the *Hiranya-garba*, which we have taken to signify the second of the sixteen *Mahādāna*s?

In the performance of the *Hiranya-garba-mahādāna* ceremony, the thing to be given away to the Brahmins is a *Hiranya-garba*, literally, “a golden womb.” *Hiranya-garba* here signifies a golden *kundā*, three cubits in height. (*Cf.*

brāhmaṇair=ānayet kundām tapaniya-mayaṁ śubham
dvāśaptaty-aṅgul-octrāyaṁ hema-paṅkaja-garbha-vat)

To discuss all the details and all the functions of the ceremony is not necessary for our purpose. The quotations, which are all from the 249th Chapter of the *Matsya-Purāṇa*, will sufficiently clear the point.

After the due *arcanā*, the performer of the *Mahādāna* ceremony is to utter a *mantra* in adoration to Lord *Hiranya-garba* (here, Lord *Viṣṇu*), two lines of which run :

bhūr-loka-pramukhā lokās=tava garbhe vyavasthitāḥ
brahm-ādayas=tathā devā namas=te viśva-dhāriṇe.

Thereafter the performer enters into the *hiranya-garba*, i.e., the golden *kundā*, and the priests perform the ceremonies of *garbhādhāna*, *pumsavana* and *simantonnayana* of the “golden

womb," as they would do in the case of an ordinary pregnant woman. Cf.

evam = āmantrya tan = madhyam = īviśy = āmbha = udāmukhah
 muṣṭibhyām parisaṃgrhya dharmarāja-caturmukhau
 jānumadhye śirah kṛtvā tiṣṭheta śvāsa-pañcakam
 garbhādhānam pūrṇavānam sīmantonnayanaṇi tathā
 kuryur = hiraṇya-garbhasya tatas = te dvija-puṇgavāḥ.

Then the performer is taken out of the "golden womb," and the *jāta-karma* and other necessary functions are performed by the priests, as if the performer is a newly born child. After that, the performer is to utter another *mantra*, wherein occur the following significant lines :

mātr = īhaip janitah pūrvanī martya-dharmā sur-ottama
 tvad-garbha-saṃbhavād = eṣa divya-deho bhavāmy = aham.

"O the best of gods, previously I was given birth to by my mother (and) was *martya-dharmā* (one having the qualities of an earthly creature). (But) now owing to my (re-)birth from your womb, I become *divya-deha* (one having celestial body)."

That the performer of the *Hiraṇyagarbha-mahādāna* was thought to be "born of the *Hiraṇyagarbha*, i.e., golden womb," is also clear from the next *mantra*, to be uttered by the priests :

adya-jātasya te = 'ṅgāni c = ābhisekṣyāmahe vayaṇi.

After the ceremony is over, the priests receive the gift of that golden womb, along with many other things.

2. *Genealogy of the "Ānanda Kings of Guntur."*¹

Two kings of the Ānanda family are known from their inscriptions. They are Attivarman of the Gorantla plates (Ind. Ant., IX. 102f.) and Dāmodaravarman of the Mattepad plates (Ep. Ind., XVII. 327f.). We have already dealt with

¹ See my note on the Ānanda Genealogy in J. R. A. S., July, 1934.

the reference to the word *hiranyaagarbha* in the Gorantla inscription and with its different interpretations. Hultzsch rightly says : “ When editing the Gorantla plates of Attivarman, my late lamented friend Fleet believed this king (*scil.* Attivarman) to have been a Pallava—chiefly because he interpreted the epithet *aprameya-Hiranyaagarbha-prasavena* by ‘who is the posterity of the inscrutable (god) Hiranyaagarbha.’ As I have shown above, the rendering is inadmissible in the light of the corresponding epithet used in the fresh plates, and Fleet himself had since withdrawn his original opinion in his Dynasties of the Kanarese Districts, second edition, p. 334 ”¹ (Ep. Ind., XVII. 328). In the Gorantla inscription, Attivarman has been called *kandaranṛpati-kula-samudbhūta*, “sprung from the family of king Kandara;” the family (*kula*), in its turn, is called *ānanda-maharṣi-vāṁśa-samudbhūta*, “sprung from the lineage of the great sage Ānanda.” On the other hand, the Mattepadi plates were issued from Vijaya-Kandara-pura, “victorious city (founded by king) Kandara.” Dāmodaravarman is, here, said to have belonged to the Ānanda-gotra. Both the Gorantla and the Mattepadi plates were discovered in the Guntur District, Madras Presidency. While editing the Mattepadi plates, Hultzsch, on these grounds, suggested that ‘the three kings Kandara,² Attivarman and Dāmodaravarman belonged

¹ “And, now that we know more about the early history and Puranic genealogy of the Pallavas, it is difficult to adapt these details to their accounts, though Attivarman does, like the Pallavas, claim to belong to the posterity of the god Hiranyaagarbha, i.e., Brahman. On the other hand, the name Kandhara,—and doubtless Kandara also,—is a variant of Krishṇa; and this suggests that we may possibly have here an early Rāṣṭrakūṭa record.” Fleet’s *Dynasties of the Kanarese Districts* in *Bomb. Gaz.*, I, Part II, p. 334.

² Kandara, Kandhara, Kandhāra, Kanbara, Kanbāra and Kannara are Prakrit variants of the Sanskrit name Krṣṇa (*Bomb. Gaz.*, I, Pt. II, p. 410, note 1). Some inscriptions of the Raṭṭas of Saundatti style the Rāṣṭrakūṭa king Krṣṇa III as *Kandhāra-puravar-ādhiṣṭara*, supreme lord of Kandhārapura, the best of towns (*ibid.*, pp. 419, 550 and note 6 ; and 384, note 4). This fact appears to have led Fleet to suggest a Rāṣṭrakūṭa connection of Attivarman (*ibid.*, 386). But as suggested by the same scholar (*ibid.*, 384, note 4) the name of Kandhārapura “may possibly have been invented from an imaginary Krishṇapura, derived from some passage similar to that in which the Eastern Chalukya

to the same family and that they may be styled “the Ānanda Kings of Guntur.”

The palaeography of the Gorantla and Mattepad records suggests that the rule of king Attivarman and that of king Dāmodaravarman were not separated by a great interval. Considering the facts that the characters of the Gorantla inscription resemble, in some respects, those of the Ikṣvāku inscriptions of Nagarjunikonda (Ep. Ind., XX. 1) and that both Nagarjunikonda, the find-spot of some Ikṣvāku inscriptions, and Kanteru, that of some Śalaṅkayana inscriptions, are localities of the Guntur District, it seems to me that the Ānanda kings, whose inscriptions are also found in the same district, began to grow powerful in about the beginning of the 4th century A.D., when the Ikṣvāku power was gradually declining. The Nagarjunikonda inscriptions have been assigned to the 3rd century A.D. and, as I shall show below, the Kanteru plates are to be ascribed to the 5th century A.D. Kings Attivarman and Dāmodaravarman may, therefore, be conjecturally placed in the 4th century of the Christian era.

But which of the two kings of the Ānanda family came earlier? According to Hultzsch, the characters of the Gorantla inscription are more developed than those of the Mattepad grant, which is besides partly written in Prakrit ;—“consequently Dāmodaravarman must have been one of the predecessors of Attivarman” (Ep. Ind., XVII. 328).

As regards the first point, *viz.*, that the characters of the Gorantla inscription are more developed, I must say that when two epigraphs belong to the same period it is extremely difficult to determine as to which of them is the earlier. In our section on the Viṣṇukundin genealogy below, we shall show that the Viṣṇukundin king Mādhavavarman II of the Ipur grant (No. 2) was suggested by Hultzsch, on *palaeographical* grounds, to be the grandfather of Mādhavavarman (I) of the Ipur grant

King Guṇaka Vijayāditya III is said to have effected the burning of the city of Krishṇa II (*Krishna-pura-dāhana*, see Ind. Ant., Vol. XX, p. 102, n. 6). ”

(No. 1). We shall also show there that the former was actually not the grandfather, but the grandson, of the latter.¹ Since the handwritings of two different scribes of even the same age may be quite dissimilar, I do not think it impossible that the difference in time between the execution of the Mattepadi and that of the Gorantla grant is short and that Dāmodaravarman of the Mattepadi grant was a successor of Attivarman on the throne of Kandarapura.²

As regards the second point, *viz.*, that the Mattepadi grant is partly written in Prakrit, I am afraid, it is a misrepresentation. In fact, the Mattepadi plates are, like the Gorantla plates, written in Sanskrit; but it is true that the names of the Brahman recipients of the king's gift are written in Prakrit, e.g., Kassava-Kumārajja (Sanskrit, Kāśyapa-Kumārāya), etc. We must notice, however, that the Gorantla inscription also exhibits the same peculiarity. I think it even more important that the name of the king is here *Attivarman* and not *Hastivarman*. *Atti* is a Dravidic form of Sanskrit *hasti*, through the literary Prakrit form *hatthi*. Names like Attivarman,³ Kumārajja, etc., only prove that both these grants were issued in a time when the replacement of Prakrit by Sanskrit in South Indian epigraphy was nearly, but not fully, complete.

There are, besides, two other points in support of our suggestion. Firstly, in the Gorantla inscription, the *kandara-nṛpati-kula* has been called *bhagavato vakeśvarādhi-vāsinas = tribhuvana-kartuh sambhoś = carana-kamala-rajaḥ-pavi-*

¹ See also my paper on the Genealogy of the Viṣṇukuṇḍīs in *Ind. Hist. Quart.*, IX, 278 ff.

² Cf. "Not only the plates of the Pallavas but also those of the Gaṅgas and the Kadambas prove that the alphabets differ much according to the scribes, who have engraved the plates; and the documents of the same reign do not sometimes resemble one another." *Anc. Hist. Dec.*, pp. 65-66.

³ With the name of Attivarman may be compared that of Attimallā, a feudatory of the Cola king Rājarāja (S. I. I., I, No. 74). Attimallā was also the surname of Kṛṣṇa III Rāṣṭrakūta. Compare also Attivarman in Kielhorn's List of S. I. Inserr., No. 1070; and "Attirāja or Attarasa, born at Nārapura in the Andhra country" in *Bomb. Gaz.*, I, Pt. II, p. 507.

trikṛta, which appears to suggest that Sambhu (Śiva) was the family deity of the Ānanda kings and that they were Saivas. On the other hand, Dāmodaravarman is called in his inscription *bhagavātāḥ samyakṣam buddhasya pādānudhyātā*, which clearly shows that he was a Buddhist. If the Ānanda kings prior to Attivarman were Saivas, Dāmodaravarman who was a Buddhist must have come after Attivarman. Secondly, the inscribed faces of the Mattepadi plates of Dāmodaravarman are “numbered consecutively like the pages of a modern book.” This fact also seems to suggest that Dāmodaravarman came after Attivarman.

But what was the relationship between these two kings of the Ānanda family, who, we think, were not far removed from each other in time?

In this connection, I like to draw the attention of readers to the epithet *avandhya-gosahasr-āneka-hiranyaagarbh-odbhav-odbhava* applied to the name of king Dāmodaravarman in the Mattepadi plates. This epithet has been translated by Hultzsch as “who is the origin of the production (*i.e.*, who has caused the performance) of many Hiranyagarbhas and of (gifts of) thousand pregnant cows.” This translation is defective for several reasons.

We have seen that Hultzsch has wrongly interpreted the passage *Hiranyaagarbha-prasava* as the “producer of the Hiranyaagarbha.” As we have shown, it should mean “one whose producer is the Hiranyaagarbha.” The corresponding passage of the Mattepadi plates is *Hiranyaagarbh-odbhava*, which means exactly the same thing. Hultzsch says: “he (*scil.* Dāmodaravarman) boasts of having performed certain Brahmanical rites, *viz.*, Gosahasra and Hiranyaagarbha (l. 2f.)” But it seems to me utterly untenable that Dāmodaravarman who was professedly a Buddhist performed these rites which are professedly Brahmanical. Besides, if Hultzsch’s interpretation is right, why did the composer use *Hiranyaagarbh-odbhav-odbhava*, and not *Hiranyaagarbh-odbhava*, which is the naturally expected form? The use of *Hiranyaagarbh-odbhav-odbhava* in the sense of “the performer of the Hiranyaagarbha” seems to me highly awkward in an

ordinary prose composition. The natural meaning of the phrase *Hiranya-garbh-odbhav-odbhava* is “one whose *udbhava* (producer, father) is *Hiranya-garbh-odbhava* (*i.e.*, performer of the *Hiranya-garbh-mahādāna*).”

As regards *avandhya-gosahasra*, I do not think that the word *avandhya* ever means “pregnant.” *Avandhya*, *i.e.* not-barren, which also means *amogha-phal-odaya* (producer of unfailing good and prosperity) according to the Sanskrit Lexicon *Rājanirghaṇṭa*, seems to refer not to *go* as Hultzsch has taken it, but to the *Gosahasra*, the fifth of the sixteen *Mahādānas* of the *Purāṇas*. The whole phrase *avandhya-gosahasr-āneka-hiranya-garbh-odbhav-odbhava*, then, means “one whose *udbhava* (*i.e.*, father) is *Avandhyago-sahasra* (*i.e.*, performer of a *Gosahasra* producing unfailing success) and *Aneka-hiranya-garbh-odbhava* (*i.e.*, performer of many *Hiranya-garbhas*).

Now, who is this *Avandhya-gosahasra-Aneka-hiranya-garbh-odbhava*, the *udbhava* (father) of king *Dāmodaravarman*? Curiously enough, in the Gorantla inscription, Attivarman is called *aprameya-hiranya-garbh-prasava*, which is obviously the same as *aneka-hiranya-garbh-odbhava*. I, therefore, do not think it quite impossible that it is king Attivarman, who was the father of king *Dāmodaravarman* of the Mattepadi plates. It may, however, be argued that the Mattepadi plates credit the father of king *Dāmodaravarman* with the performance of a *Gosahasra* as well, but there is no reference to this *Mahādāna* in Attivarman’s own Gorantla grant. The *Gosahasra mahādāna* was possibly performed by Attivarman after the execution of the Gorantla grant. It may also be a case of the *Argumentum ex Silentio*.

3. *Attivarman (= Hastivarman).*

As we have seen, the Ānanda king Attivarman was a devotee of *Sambhu* (Siva) and performed “many” *Hiranya-garbhas*. The performance of such a costly *mahādāna* as the *Hiranya-garbhā*

SUCCESSORS OF THE SATAVĀHANAS

for more than once (and probably also of a Gosahasra) seems to show that he was a rich and powerful prince. His epithet *pratāpopanata-sakala-sāmanta-maṇḍala* suggests that there were other ruling chiefs who acknowledged his suzerainty. His inscription tells us that he acquired fame in ruling his subjects with justice.

The Gorantla inscription records the gift of eight hundred *pattis* (pieces) of land in the village of Tāṇṛikonṛa on the southern bank of the Kṛṣṇaveniṇā river and also of the village of Āntukkūra, to a Brahman named Koṭtiśarman, who belonged to the Kāśyapa-gotra. The name of the village, read now as Tāṇṛikonṛa by Hultzsch, was originally read by Fleet as Tānthikontha (Ep. Ind., VII. 328). The village has been identified by Hultzsch with the modern Tāḍikonda, ten miles to the north of Guntur and to the south of the Krishna. Āntukkūra, according to him, is probably modern Gani-Ātkūru to the west of Bezwāda. The recipient Koṭtiśarman has been described as knowing the Āpastamba-sūtra and also the three Vedas, viz., R̥k, Yajus and Sāman.

The seal of king Attivarman attached to the Gorantla plates is circular. "The emblem on it is probably some god, sitting cross-legged on an altar, but it is anything but clear, even in the original" (Ind. Ant., IX. 102). The figure is sunk in the flat surface of the seal, instead of being raised in relief on a counter-sunk surface as is usually the case.

4. Dāmodaravarman.

We have already said much about this king. The Mattepād grant was issued on the 13th day of the bright half of Kārtika in the 2nd regnal year of the king. It records the grant of the village of Kamgūra, with all *parihāras*, to a number of Brahmans. *Parihāra*, i.e., "immunity, privilege, exemption from taxes," is mentioned in Kautilya's *Arthaśāstra* (Shamasastri's 2nd ed.,

p. 73) and also in the *Manusamhitā*, VII. 201. The *parihāras* are sometimes stated to be of eighteen kinds, but are very often referred to as *sarvajātapharihāra* (immunities of all kinds). For some of them see page 35 above. A learned discussion on the subject of *parihāras* by Senart who edited the Karle inscriptions is to be found in *Ep. Ind.*, VII, pp. 65-66.¹

"The cognate inscriptions have no doubt as to the privileges which were expressly mentioned here; we have to restore *anomasam alonakhādakam arathasamvinayikam savajātapharihārikam*. The translation is less certain than the reading. Regarding *apāvesaṇ*, in Sanskrit *aprāveśyaṇ*, it is sufficient to refer to Dr. Fleet's *Gupta Inscriptions*, p. 98, note. *Anomasa* represents *anaramriṣyam*; its certain equivalent in later terminology, namely, *sumastarājakiyānāṇ* *ahastaprakshepaniyam* (*ibid.*, p. 171, note) seems to imply that the royal officers were prohibited from taking possession of anything belonging to the village. For *alonakhādaka* the later inscriptions offer several equivalents—*alavaṇakreni-khanaka* which Bühler (p. 104) has already quoted (Dr. Fleet's No. 55, l. 28, and No. 56), *alonagulachchhobha* in line 32 of the plates of Śivaskandavarman (*Ep. Ind.*, Vol. I, p. 6) and *salohalavaṇākara* in line 17 of the plates of Govindachandra (*ibid.*, Vol. IV, p. 101). These words are far from clear; but if we remember the fact that the production of salt is a royal monopoly (Bühler in *Ep. Ind.*, Vol. I, p. 2, note) and the details quoted by Bhagwanlal (*Bombay Gazetteer*, Vol. XVI, p. 556, p. 179) regarding the manner of digging the soil for salt which prevailed in the very region of our inscriptions, it seems to me that the explanation proposed by Bhagwanlal, viz., *alavaṇakhātaka* with the Prakrit softening of *t* into *d* is quite satisfactory. The object of this immunity would thus be to deny to the representatives of the king the right of digging pits for extracting salt.

"The next term seems to be written in our inscriptions *arathasamvinayika* or **savinavika*, but line 12 of the grant of Śivaskandavarman (*Ep. Ind.*, Vol. I, p. 6) distinctly reads *arathasamvinayikam*. In stating that this spelling excluded his earlier explanation, Bühler did not suggest another instead of it. I do not know any parallel expression which clears up this one finally. The word seems to represent *arāśṭrasamvinayika*; but etymology alone is an unsafe guide in the interpretation of technical terms. *Vineti* is only used in a moral sense. Could we think of translating: 'exempted from the police, the magistrate of the district (*rāshṭra*; compare Dr. Fleet's *Gupta Inscriptions*, p. 32, note), or of the *rāshṭrin*?' This would remind us of those grants in which, on the other hand, it is stated that the right of punishing thefts and offences is reserved by the king, or of those in which the right to punish the 'ten offences' (*sadasāparādhā*; see, e.g., the Alina plates, l. 67 in Dr. Fleet's *Gupta Inscriptions*, p. 179, and the Deo-Baranārk inscription, l. 17, *ibid.*, p. 217) is transferred to the donee. At least I have nothing more plausible to suggest. It is well known that the different formulas of immunities were variable and always incomplete. And it is not to be wondered at that they should be summed up in a comprehensive and general expression like *sarvajātapharihārika*. Elsewhere the texts are more precise in stating that there are eighteen kinds of immunities. It will be enough to quote the inscriptions of the Pallavas, and notably that of Śivaskandavarman, which reads *aitthāraja-sātiprīkāra* (*Ep. Ind.*, Vol. I, p. 6)."

The Mattepad grant was issued from the victorious city of Kandarapura, which was possibly the capital of the kings of the Ānanda line. The recipients of the grant were the following : Ruddajja (Rudrārya), Nandijja (Nandyārya), Khandajja (Skandārya), Bhavajja (Bhavārya), Agnijja (Agnyārya), Sirijja (Syārya), Savarajja (Sabarārya) and Vīrajja (Vīrārya) of the Koṇḍinna (Kaundinya)-gotra, Dāmajja (Dāmārya), Kumarajja (Kumārārya), Veṇujja (Viṣṇvārya), Devajja (Devārya), Nandijja and Dīnajja (Dīnārya) of the Kassava (Kāśyapa)-gotra and Bhaddajja (Bhadrārya) of the Āgasti-gotra.

The seal of Dāmodaravarman attached to the Mattepad plates is oval and is said to be much worn. It bears in relief, according to Hultzsch, the figure of a "seated bull," facing the proper right.

We do not know who succeeded Dāmodaravarman on the throne of Kandarapura. The end of the Ānanda dynasty is wrapped up in obscurity. They were possibly subdued or supplanted by the Śālaṅkāyanas in the 5th century A.D.

CHAPTER IV

THE SĀLAṄKĀYANAS.

1. *Genealogy of the Sālaṅkāyanas.*¹

While editing the Kolleru (Kollair) grant of the Sālaṅkāyana Mahārāja Nandivarman, son of Caṇḍavarman, in Ind. Ant., Vol. V, pp. 175 ff. (Sanskrit and Old-Canarese Inscriptions : No. XVIII) Dr. Fleet remarked : “ In Sir W. Elliot’s facsimiles I have another copper-plate inscription of Vijayanandivarmanā and his *Yuvamahārāja*, whose name seems to be *Vijayatunga*varmā or *Vijayabuddhavarmā*. ” He appended the following note to the name of the *Yuvamahārāja* : “ The original has, l. 3, ‘Vijaya-bunga’varmassa,’ and in the margin, a little above the line, there is the character ‘ddha’—differing not much from ‘ṅga’ as there written—apparently intended to be introduced somewhere in the line as a correction.” Now, as we shall presently see, this statement regarding the inscription is really wrong and was subsequently corrected by Dr. Fleet himself. But, unfortunately, the blunder has become permanent in later writings on the Salankāyana genealogy.

En passant, I may draw the attention of readers to the names of these kings generally accepted and used by scholars. The names can hardly be Vijayanandivarman, Vijayabuddhavarman and the like.

The Sālaṅkāyana inscriptions are stated to be issued from Sri-vijaya-veṅgīpura, Vijaya-veṅgīpura or Vijya-veṅgī. The Kadamba grants are generally issued from Sri-vijaya-vaijayanti,

¹ My paper on the Sālaṅkāyana genealogy was originally published in Ind. Hist. Quart., IX, pp. 208ff.

Srī-vijaya-triparvata and Srī-vijaya-palāśikā.¹ The Matteplates of Dāmodaravarman (Ep. Ind., XVII. 327 ff.) were issued from Vijaya-kandarapura. We have also references to Srī-vijaya-kāñcīpura, Srī-vijaya-palakkadā and Srī-vijaya-daśanapura in some of the Pallava inscriptions (Ep. Ind., III, 142 ff., and I. 297; Ind. Ant., V. 56ff, 154 ff.). There can be no doubt that the names of the places are Venīpura, Kāñcīpura, Vaijayanti, Palāśikā, etc., and that *vijaya* or *śrī-vijaya* has been prefixed to them simply for the sake of glorification. I have no doubt that the name of the Śālankāyana Mahārāja of the Kollair grant is similarly Nandivarman, and not *Srī-vijaya-* or *Vijaya-nandivarman*, as is generally taken to be. *Vijaya* and *Śrī-vijaya*, in such cases, mean *Vijaya-yukta* and *Śrī-vijaya-yukta* respectively. When prefixed to proper names, they form examples of the *Tatpurusa* compound of the *Śākapārthivādi* class. The word *jaya* is also used in this way. As for instance, Karmānta (modern [Bad]-Kāntā near Comilla) has been mentioned as *jaya-Karmānta-vāsaka* in the Ashrafpur plate of Devakhadga (Bhandarkar's List, No. 1588). It must, also, be noticed that in the Peddavegi and the Kanteru (No. 2) grants the reigning Śālankāyana king is simply called Nandivarman. Note also that the Pallava king Skandavarman II in his own Omgodu (No. 1) grant (Ep. Ind., XV. 246) calls himself Srī-vijaya-Skandavarman, while in the Uruvupalli grant of his son Viṣṇugopavarmān (Ind. Ant., V. 50) and in the Omgodu (No. 2), Pikira (*ibid.*, XV. 246; VIII. 159) and the Mangalur (Ind. Ant., V. 154) grants of his grandson Simhavarman he is simply called Skandavarman.

To come to our point. The first scholar, who accepted the wrong information of Dr. Fleet and added thereto something of his own, seems to be Prof. Dubreuil, the author of *Ancient History of the Deccan* (Eng. tran., 1920). Before he wrote, a Prakrit copper-plate inscription of another Śālankāyana Mahārāja, Devavarman, was discovered

¹ See the Kadamba grants edited by Fleet in Ind. Ant., VI and VII. -

near Ellore. It was edited by Dr. Hultzsch in Ep. Ind., Vol. IX, 56 ff. In the Ancient History of the Deccan, Prof. Dubreuil, therefore, speaks of four Śālaṅkāyana monarchs, *viz.*,

1. Devavarman of the Ellore plates.
2. Caṇḍavarman, and his son
3. Nandivarman of the Kollair plates.

4. Buddhavarman, son of (3) Nandivarman mentioned in the facsimile referred to by Fleet. As regards Buddhavarman, Dubreuil has quoted the passage of Dr. Fleet, and remarked : “ This name is probably Buddhavarmanā, for in the margin, there is the character ‘dha’ ” (Anc. Hist. Dec., Eng. tr., p. 89). Evidently the Professor goes a step further. I do not know from which authority he learnt that the letter in the margin is “dha” and not ‘ddha,’ as is attested by Fleet.

The mistake was next repeated by Mr. K. V. Lakshmana Rao who edited the two copper-plate grants discovered at Kanteru, one belonging to the Śālaṅkāyana Mahārāja Nandivarman and the other to the Śālaṅkāyana Mahārāja Skandavarman.¹

Like Prof. Dubreuil, Lakshmana Rao has quoted the same passage of Fleet and has taken “Vijaya Buddhavarman” as a king belonging to the Śālaṅkāyana dynasty (Jour. Andhra Hist. Res. Soc., Vol. V, p. 26). It is to be noted that Fleet hesitatingly proposed an alternative of two names, *viz.*, Tuṅgavarman and Buddhavarman; then Dubreuil showed favour for the name Buddhavarman; and now Lakshmana Rao takes Buddhavarman as an established name in the genealogy of the Śālaṅkāyanas.

Next we come to Mr. R. Subba Rao, who has edited the Peddavegi copper-plates of the Śālaṅkāyana Mahārāja Nandivarman II (*ibid.*, Vol. I, pp. 92 ff.). He refers to five inscriptions belonging to the Śālaṅkāyana kings.

¹ Journ. Andhra Hist. Res. Soc., V. 26ff.; the plates appear to be originally edited by the same scholar in Journ. Andhra Academy or the Andhra Sahitya-Parishat-Patrika, Vol. XI, 1884.

"Of these a Prakrit inscription which was discovered by Mr. Elliot remains unpublished ; but two kings (?) mentioned in it are known to us as Vijayanandivarman Yuvamahārāja (!) and Vijayabuddhavarman. The late Mr. Lakshmana Rao edited in Andhra Sahitya Parishat Patrika, Vol. XI, two Śālañkāyana inscriptions discovered in Kanteru near Guntur and these belong to Nandivarman and Skandavarman. Another Śālañkāyana inscription discovered in Kollair lake and which belongs to Vijaya Nandivarman, eldest son of Chandavarman, was published in *Indian Antiquary*, Vol. V, by Mr. Elliot (? Fleet). A Prakrit inscription discovered at Ellore which belongs to Vijaya Devavarman was published in *Epigraphia Indica*, Vol. IX " (*ibid.*, p. 93). By this time, everything is complete.

I am afraid, these scholars have not carefully read all the inscriptions edited by Dr. Fleet in his well-known " Sanskrit and Old-Canarese Inscriptions " series. It is, however, wrong to say that " a Prakrit inscription which was discovered by Mr. Elliot remains unpublished." It was actually published by Dr. Fleet in Ind. Ant., IX, pp. 100 ff. (Sans. Old-Can. Ins., No. LXXIV). " This is the grant of Vijayabuddhavarmā," he says there, " of which I have spoken at Vol. V, p. 175. I now give the text from the original plates which belong to Sir Walter Elliot."

Fleet's reading of the first plate of the grant is as follows :

L. 1. Siddha Sirivijayakhandavamma-mahārājassa Sarv-vachhara.....

L. 2. Yuvamahārājassa Bhāraṭīyana Pallavā-

L. 3. ḗam Sirivijayabuddhavarmassa dēvi.....

L. 4. kujana vīhā(?)rudēvī Kadā(?)vīya.....

No argument is necessary to prove that the inscription belongs to the Pallavas and refers to the king Skandavarman and the Crown-prince Buddhavarman, and that it has nothing to do with the Śālañkāyas. Dr. Fleet was himself conscious of what he said before, and remarked (*ibid.*, p. 101) : "And

Vijayabuddhavarmā is said to be a Pallava, and of the Bhārattāyana *gotra*. There is therefore, no genealogical connection between the Vijayabuddhavarmā of this grant and the Vijayanandivarmā of the Veṅgī grant at Vol. V, p. 175, who was of the Śālaṅkāyana *gotra*.' Dr. Fleet, however, could not translate the inscription, as it is written in Prakrit. It has now been carefully edited by Dr. Hultzsch in Ep. Ind., VIII (pp. 143 ff., "British Museum Plates of Chārudēvī" with "Plates of Vijaya-Skandavarman and Vijaya-Buddhavarman"). The first plate has been thus deciphered and translated by Hultzsch :

Siddha //

- L. 1. Siri-Vijaya-Khandava[m]ma-mahārājassa sampv-
vachchhar[ā].....[*]
- L. 2. Yuvamahārājassa Bhāraddāyassa Pallavā-
- L. 3. ḷam Si[ri]vijaya-Buddhavarmassa dēvī [Bu]ddhi...
- L. 4. kura-janavī Chārudēvī ka[ḍake]vīya..... [*]

" Success ! The years (*of the reign*) of the glorious Mahārāja Vijaya-Skandavarman. Chārudēvī, the queen of the *Yuva-mahārāja*, the Bhāradvāja, the glorious Vijaya-Buddhavarman (*of the family*) of the Pallavas, (*and*) mother of [Buddhyāṇ]-kura, (*addresses the following order*) [to the official at] Ka[ṭaka]."

There can, then, be no question of a Buddhavarman in the genealogy of the Śālaṅkāyanas.

The following kings are so far known from inscriptions to have belonged to the Śālaṅkāyana dynasty :—

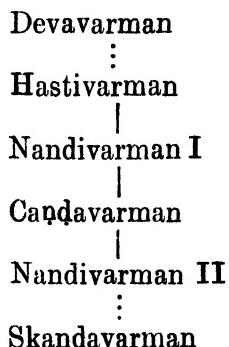
1. Ellore Prakrit grant (i) Devavarman.
2. Kollair grant (i) Caṇḍavarman,
(ii) Nandivarman, eldest son of
Caṇḍavarman.
3. Kanteru grant (No. 1) (i) Skandavarman.
4. Kanteru grant (No. 2), (i) Nandivarman.

5. Peddavegi grant (i) Hastivarman,
 (ii) Nandivarman I, son of
 Hastivarman,
 (iii) Caṇḍavarman, son of Nandi-
 varman I,
 (iv) Nandivarman II, eldest son
 of Caṇḍavarman.

There can be no doubt that Nandivarman of the Kollair grant is identical with Nandivarman II of the Peddavegi grant, since both of them are described in the inscriptions as "the eldest son of Caṇḍavarman." It is however not quite clear whether Nandivarman of the Kanteru grant (No. 2) is identical with either of the two Nandivarmanas of the Peddavegi plates or he is a third king different from them. Nevertheless, it seems reasonable to identify him with Nandivarman II of the Peddavegi grant. Both in the Kollair and the Peddavegi grants Nandivarman II is called *bhagavac-citrarathasvāmi-pād-ānudhyāto bappa-bhāttāraka-pāda-bhaktaḥ parama-bhāgavataś=śalaṅkāyana*. It is interesting to note that exactly the same epithets have been applied to Nandivarman also in the plates discovered at Kanteru. It must moreover be noted that the king has the epithet *parama-bhāgavata* in all these three inscriptions and that no other Śalaṅkāyana king is as yet known to have used this epithet. It appears, then, almost certain that Nandivarman of the Kanteru plates is also, like the king of the same name of the Kollair grant, identical with Nandivarman II of the Peddavegi plates. There is unfortunately nothing from which we can determine the precise relationship that existed between Devavarman and Skandavarman on the one hand and the line of the remaining four kings on the other.

As the Ellore grant is written in Prakrit, there can hardly be any doubt that king Devavarman ruled before Skandavarman and Nandivarman II who use Sanskrit in their inscriptions. The characters of the Peddavegi plates of Nandivarman II

appear to be slightly more developed than that used in the Ellore plates of Devavarman. Devavarman, therefore, should be placed before Hastivarman, who appears to have been succeeded regularly by his son, grandson and great-grandson. Considering the facts that the inscriptions of Nandivarman II are to be palæographically assigned to about the middle of the 5th century A.D., and that he was preceded by three kings of his line, it seems probable that Skandavarman of the Kanteru grant came after Nandivarman II.¹ We however do not know whether Devavarman was the immediate predecessor of Hastivarman or Skandavarman the immediate successor of Nandivarman II. The genealogical tree then stands thus :



It may be noticed here that this Śālāṅkāyana Hastivarman of the Peddavegi plates can hardly be any other than the *Vaiṅgeyaka-Hastivarman*, mentioned in the famous Allahabad pillar inscription of Samudragupta.² The main arguments in favour of this assertion are the following :

(i) The Śālāṅkāyana line is the only dynasty which can be properly called *Vaiṅgeyaka* (belonging to *Vēṅgi*), as all the

¹ Some scholars have suggested that Skandavarman might have been the younger brother of Nandivarman II (J.A.H.R.S., V, p. 27). The conspicuous mention in Nandivarman II's inscription of his being the eldest son of Mahārāja Cañdavarman may suggest that the king had a rival in one of his younger brothers. We however do not as yet definitely know whether this younger brother could be Skandavarman of the Kanteru grant No. 1.

² Corp. Inscr. Indic., Vol. III, No. 1; see also Journ. Andhra Hist. Res. Soc., I, 93. Even recent works on Indian History regard *Vaiṅgeyaka* Hastivarman of the Allahabad

grants of the Śālaṅkāyana kings are issued from Veṅgīpura. No other early dynasty is known to have its headquarters at the city of Veṅgi.¹

(ii) The Śālaṅkāyanas ruled according to Dubreuil, "between 350 and 450 A.D." (*op. cit.*, p. 87); and Burnell thought that the Kollair grant of Nandivarman may be palaeographically assigned to the 4th century A.D. (South Ind. Palaeography, p. 14 and n. 2). It is therefore generally accepted that the Śālaṅkāyanas ruled contemporaneously with the early Guptas (320-467 A.D.).

As regards the date proposed by Dubreuil, it may be said that the Śālaṅkāyanas certainly began to rule long before 350 A.D. Dr. H. C. Raychaudhuri (*Polit. Hist. Anc. Ind.*, 3rd ed., p. 341, n. 1) has rightly identified the Śālaṅkāyanas with the

pillar inscription as a Pallava king or a Pallava viceroy of the king of Kāśī. See, as for instance, Sewell's *Hist. Ins. South. Ind.* (1932), p. 375.

¹ It may be noted that a Sanskrit grant belonging to the Pallava Dharmā-Mahārāja Siphavarman (Ind. Ant., V. 154) refers to Veṅgorāṣṭra. Siphavarman is there said to have granted a village in the Veṅgorāṣṭra. The grant was issued from Daśanapura, which has been identified by Venkaya with modern Darsi in the Nellore District (Ind. Ant., 1908, p. 283). "None of these places Tāmbriṇa, Palakkadā, Daśanapura or Menmātūra (* from where some Sanskrit charters of the Pallavas were issued) has been identified definitely, although a suggestion has been made by the late Mr. Venkaya that they are to be looked for in the vicinity of the region comprised by the modern Nellore District" (R. Gopalan, *Pallavas of Kanchi*, p. 55). Prof. Dubreuil also places the Daśanapura region in the Nellore and the Guntur Districts (*Anc. Hist. Dec.*, p. 69). The Veṅgi country, we know, lay "between the Krishna and the Godavari." If this Veṅgorāṣṭra refers to the country of Veṅgi, it may be assumed that, at the time of Siphavarman Pallava, the southern fringe of this country was under the possession of the Pallavas. There is however as yet no evidence to prove that the capital city of Veṅgi was ever occupied by the Pallavas. We must also note that even the grandfather of this Siphavarman used Sanskrit in his inscription (*Cf.* Omgodu plates of Skandavarman II, Ep. Ind., XV, p. 246 ff.). It is generally accepted that Sanskrit was introduced in Southern inscriptions in about the 4th cent. A.D. Siphavarman, therefore, came some time after the reign of Samudragupta.

It may however be conjectured that with the extension of the Veṅgi kingdom under the Śālaṅkāyanas, the name Veṅgi also extended over the Andhradeśa, as far south as the Karnarāṣṭra (northern part of Nellore and southern part of Guntur). Veṅgorāṣṭra in the possession of the Pallavas is, then, to be conjectured to have been originally the southernmost part of the Śālaṅkāya kingdom. There is however no evidence to prove that the Pallavas were in possession of the city of Veṅgi.

Salakēnoi mentioned in the Geography of Ptolemy (about 140 A.D.). Ptolemy says : “ Beyond the Maisōloī (*cf.* Masulipattan) are the Salakēnoi near the Arouaia mountains, with the following cities. Bēnagouron $140^{\circ} 24'$, Kastrā $138^{\circ} 19'30'$; Magaris $137^{\circ}30'$ $18^{\circ}20'$ (Geography, VII. i, § 79). Bēnagouron, the premier city of the Salakēnoi, appears to me to be a mistake for Bengaouron (Bengapura) which is no other than the well-known Veṅgīpura (*Cf.* Veṅgorāśtra of the Mangalur grant).

As regards the conjecture of Dr. Burnell, I may simply say that, if we compare the characters of the Kollair plates (Ind. Ant., V. 175. Pls.) with those of the inscriptions of the early Eastern Cālukyas,¹ and of the Visṇukūṇḍins,² it becomes impossible for us to accept such an early date for the Kollair grant. I have no hesitation in asserting that palæography has nothing to say against the ascription of the inscriptions of Nandivarman II to the middle of the 5th cent. A. D. It is then quite possible that his great-grandfather Hastivarman ruled about a century earlier and was a contemporary of Samudragupta (about 330 to 375 A.D. according to Smith).

(iii) Lastly, excepting this Śālaṅkāyana Hastivarman, we do not know of any other king, who ruled at Veṅgī, whose name was Hastivarman and who can any how be placed in the middle of the 4th century A.D., which is the time of Samudragupta.

Accepting the contemporaneity of Samudragupta and Śālaṅkāyana Hastivarman, we may draw the following approximate chronological chart of the Śālaṅkāyana Mahārājas.

| | | | |
|--------------------|-----------|-----|--------|
| Devavarman..... | <i>c.</i> | 335 | A.D. ? |
| ⋮ | | | |
| Hastivarman..... | <i>c.</i> | 360 | A.D. |
| ⋮ | | | |
| Nandivarman I..... | <i>c.</i> | 385 | A.D. |

¹ See, e.g., the Polamuru plates of Jayasimha I (Journ. Andhra Hist. Res. Soc., IV. 72, Pls.); and the Satara plates of Viṣṇuvardhana I (Ind. Ant., XIX. 310-11).

² See, e.g., the Polamuru plates of Mādhyavavarman (I), who cannot be too much earlier than Jayasimha I (Journ. Andhra Hist. Res. Soc., VI. 17, Pls.)

| | | | |
|---------------------|-----------|-----|--------|
| Cañavarman | <i>c.</i> | 410 | A.D. |
| Nandivarman II..... | <i>c.</i> | 435 | A.D. |
| : | | | |
| Skandavarman..... | <i>c.</i> | 460 | A.D. ? |

2. *Who was Cañavarman of the Komarti Plates?*

In his recent work, *Hist. Ins. South. Ind.* (1932), p. 18, s.v. A.D. 340, the late Mr. Sewell has thus remarked on the Komarti grant: "About the fourth century A. D. A set of plates from Komarti in Ganjam, dated in the sixth regnal year of the Sālaṅkāyana chief Chandavarman." Mr. K. P. Jayaswal in his recently published work, *History of India* (1933) even goes so far as to suggest that the Sālaṅkāyanas ruled not only in Kaliṅga but originally also in Magadha (p. 127). Sewell and Jayaswal here evidently follow the views of Prof. Hultzsch who, while editing the Komarti plates in *Ep. Ind.*, IV. 142 ff., was inclined to identify king Cañavarman mentioned in this inscription with the Sālaṅkāyana Mahārāja Cañavarman, father of Nandivarman II. Prof. Kielhorn, who entered the Kolleru inscription of Nandivarman II Sālaṅkāyana in his *List of North Indian Inscriptions* (*Ep. Ind.*, V, App., No. 686) was obviously of the same opinion.¹ Prof. Dubreuil remains silent about the suggestion of Hultzsch, when he discusses the Komarti grant (*Anc. Hist. Dec.*, p. 94), though he has not taken up the suggestion of Hultzsch. We may not accept the identification, but such great authorities in South Indian Epigraphy as Hultzsch and Kielhorn cannot be passed over in silence. Moreover, a discussion on this point has now become indispensable after some scholars have accepted the old suggestion made by Hultzsch and supported by Kielhorn.

Regarding the Komarti plates, Hultzsch says that "a connection may be established with the plates (*i.e.*, the Kollar plates) of the Sālaṅkāyana Mahārāja Vijayanandivarman, who

¹ Following Kielhorn, Prof. D. R. Bhandarkar has also entered the Sālaṅkāyana inscriptions in his *List of North Indian Inscriptions* (*Ep. Ind.*, XX-XXI. App., Nos. 2087-91).

(1) like Chāṇḍavarman, professes to have been devoted to the feet of the lord, (his) father (*bappabhattāraka-pāda-bhakta*), and who (2) was the eldest son of *Mahārāja Chāṇḍavarman*. The close resemblance between the alphabets of the plates of Vijayanandivarman and of the Komarti plates suggests that Chāṇḍavarman, the father of Vijayanandivarman, may have been identical with the *Mahārāja Chāṇḍavarman* who issued the Komarti plates."

I agree with Hultzsch that the characters of the Komarti plates resemble closely those of the plates of Nandivarman II Śālaṅkāyana, and that, therefore, "the two Chāṇḍavarmanas must have belonged to the same period." But it is difficult to go beyond that. There are some serious points against the identification of the issuer of the Komarti plates with the Śālaṅkāyana Mahārāja Chāṇḍavarman.

The Komarti plates were found near Narasannapeta in the Ganjam District. The grant was issued from Vijaya-Simhapura, which has been identified with modern Singupuram between Chicacole and Narasannapeta.¹ On the other hand, all the known Śālaṅkāyana grants were issued from Venigipura, which has been identified with Peddavegi near Ellore in the West Godavari District and which appears to have been the chief city of the Śālaṅkāyanas as early as the time of Ptolemy.

It must be noted that Chāṇḍavarman of the Komarti grant calls himself *Kalingādhipati* (lord of Kalinga); but no Śālaṅkāyana Mahārāja so far known claims mastery over the Kalinga country. The issuers of all the Śālaṅkāyana grants invariably call themselves *Śālaṅkāyana* and also *Bhagavac-citrarathasvāmī-pād-ānu-dhyāta*, i.e., meditating on the feet of lord Citraratha-svāmī who must have been the family deity of the Śālaṅkāyanas.

¹ The name of Simhapura, the capital of the dynasty to which Chāṇḍavarman belonged, and the names ending in -varman appear to support a conjecture that these Varmans of Kalinga originally came from the Simhapurarājya (Yuan Chwang's "kingdom of Sang-ho-pu-lo; Beal, Si-yu-ki, I, pp. 148-7) in the Punjab. The Lakkhamandal inscription of about the "end of the 7th century" refers to twelve princes of Simhapura, whose names end in -varman (Ep. Ind., I, pp. 12 ff.).

It must also be noticed that both these distinctive epithets are conspicuous by their absence in the Komarti grant.

Besides, the phraseology of the Komarti grant seems to be different from that of the known Śālaṅkāyana inscriptions. Two points at least deserve notice in this connection. First, the king of the Komarti grant calls himself *Śrī-mahārājā(ja)-Caṇḍavarmā*, while all the issuers of the Śālaṅkāyana grants invariably call themselves *Mahārāja-śrī-so-&-so*. Secondly, the phrase *āsaḥasrāṁśu-śaśi-tārakā-pratiṣṭha* used as an adjective of *agrahāra*, and the idea conveyed by it, are unknown to the phraseology of the known Śālaṅkāyana inscriptions which, we should note, are marked by a remarkable similarity of language among themselves.

Such being the case, we must take the issuer of the Komarti plates as belonging to a separate dynasty, until further evidence is forthcoming.¹ It seems probable that the dynasty² to which Caṇḍavarman of the Komarti grant belongs ruled over the Kaliṅga country (or the major part of it) with its capital at Simhpura, when the Śālaṅkāyanas ruled over the country to the west of Kaliṅga with their capital at Vengipura. The country of the Śālaṅkāyanas was the heart of what is called the Andhra-deśa in Sanskrit literature. In the inscriptions of the Eastern Cālukyas, it has been designated Vengimandala, Vengirāṣṭra, Veṅgīmahī and the like. Probably the country was called "the Veṅgī kingdom" even in the Śālaṅkāyana period.

Another king of the dynasty of Simhpura seems to have been the issuer of the Brihatproṣṭha grant (issued from vijaya-Sihapura, i.e., Simhpura), edited by Hultzsch in Ep. Ind., XII,

¹ Prof. Dubreuil has rightly separated the two dynasties in his *Anc. Hist.* Dec., pp. 89 & 95.

² See foot-note at p. 64. The dynasty may be styled as "the Varman dynasty of Kaliṅga."

4 ff. The name of the king who issued this grant has been taken to be Umavarman. According to Hultzsch, " both the alphabet and the phraseology of the grant closely resemble those of the Komarti plates of Mahārāja Chāṇḍavarman. This king may have belonged to the same family as the Mahārāj-omavarman. For both kings issued their edict from Simhapura(or Sihapura)and bore the epithets ' lord of Kaliṅga ' and ' devoted to the feet of (his) father.' "¹

The characters of the Komarti grant closely resemble those of another inscription, the Chicacole grant of Nanda Prabhañjanavarman.² The two phraseological peculiarities of the Komarti grant noticed above are present in the Chicacole grant. We may therefore agree with Hultzsch when he says, " The phraseology of the grant resembles that of the copperplate grants of the Gaṅgas of Kaliṅga, but still much more closely with that of the Chicacole plates of Nandaprabhañjanavarman. Another point in which the last mentioned plates agree with the Komarti plates is that in both of them the title *Kalingādhipati*, i.e., 'lord (of the country) of Kaliṅga' is applied to the reigning prince. There remains a third point which proves that Chāṇḍavarman and Nandaprabhañjanavarman must have belonged to the same dynasty. An examination of the original seal of the Chicacole plates, which Mr. Thurston, Superintendent of the Madras Museum, kindly sent me at my request, revealed the fact that

¹ Ep. Ind., XII, p. 4. Hultzsch is not quite accurate in the last point. Caṇḍavarman is called *Bappa-bhaṭṭāraka-pādabhakta*, while Umavarman is called *Bappa-pādabhakta* in the inscription. An inscription discovered at Tekkali seems to have been issued by this king Umavarman. It has been noticed in Journ. Andhra Hist. Res. Soc., VI, pp. 53 f.

² Ind. Ant., XIII, 48 f. The name so long taken by scholars as Nandaprabhañjanavarman probably signifies Prabhañjanavarman of the Nanda family. For a reference to the Nanda or Nandodbhava dynasty in the Kaliṅga region see the Taimul plates of the Nanda chief Dhruvānanda of the year 298, which, if referred to the Harṣa era, corresponds to A.D. 899 (J.B.O.R.S., XIV, pp. 90 ff.; No. 2043 of Bhandarkar's List of North Indian Inscriptions, Ep. Ind., XX-XXI, Appendix). These Nandas or Nandodbhavas appear to have claimed descent from the mighty Nandas who ruled at Pāṭaliputra before the Mauryas. It may be interesting in this connection to note that a certain Naudarāja is referred to in the famous Hashigumpha inscription of Khāravela, king of Kaliṅga (Ep. Ind., XX, pp. 79f., lines 6 & 12).

the legend on the seal is *Pi[tri-bhakta]*, just as on the seal of the Komarti plates.”¹ The Chicacole grant was, however, not issued from Simhapura or Sihapura, but from vijaya-Sārapallikā-vāsaka, “ the residence or palace (or camp ?) at the victorious Sārapallikā.” It is not clear whether Sārapallikā was the capital of the Kaliṅgādhipati Nanda Prabhañjanavarman, but the explicit mention of the term *vāsaka* (residence, dwelling) probably suggests that it was not the permanent capital of his family.²

On plaeographic grounds, these kings should be assigned to about the time of Nandivarman II Śalañkāyana, i.e., about the 5th century A.D.³ It is, therefore, impossible to agree with the late Prof. R. D. Banerji when he writes,⁴ “ We do not know anything of the history of Kaliṅga and Orissa after the fall of the dynasty of Khāravela (2nd century B.C. according to the Professor) till the rise of the Śailodbhavas in the 7th century A.D.”

It is difficult to determine whether this line of the kings of Kaliṅga was ruling at the time of the southern expedition of Samudragupta (c. 350 A.D.). It is, however, interesting to note that the Allahabad pillar inscription does not refer to any king of Kaliṅga, nor of Simhapura and Sārapallikā. The states mentioned there, that may be conjecturally assigned to the Kaliṅga region, are Kurāla, Kotṭura, Piṣṭapura, Eranḍapalla, Avamukta and Devarāṣṭra. Of these Piṣṭapura has been definitely identified with Pithapuram in the Godavari District. That it was the seat of a Government in the beginning of the 7th century A.D., is proved by the passage *piṣṭam piṣṭapuram yena* in the Aihole inscription of Pulakesin II.⁵ It is interesting

¹ Ep. Ind., IV, 143.

² The term *vāsaka* and the similar term *skandhāvāra* appear to mean “ the temporary residence (therefore, the temporary capital) of a king.” See above, p. 87.

³ Prof. Dubreuil places them a little later, *loc. cit.*

⁴ History of Orissa, I, Ch. VIII (Kaliṅga and Orissa in the Seythian and Gupta periods), p. 109.

⁵ Ep. Ind., VI, 4 ff.

that we have got an inscription of a *Kaliṅgādhipatīrm=māga-dha-kul-ālankariṣṇurv=vāsiṣṭhīputro mahārāja-śri-śaktivarmanā*, who granted the village of Rākaluva in the Kaliṅga-viṣaya (Ep. Ind., XII, pp. 1 ff.). Rākaluva has been identified with Rāgolu, the findspot of the copper-plates, near Chicacole in the Ganjam District. The characters of the inscription seem to resemble those of the Vengī and the Simhapura inscriptions, and may, therefore, be assigned to about the 5th century A.D. But the phraseology is remarkably different from that of the inscriptions of the Simhapura line. It may be conjectured therefore that Śaktivarman belonged to a separate dynasty, that of Piṣṭapura, which was probably supplanted by the Cālukyas in the beginning of the 7th century A.D.

It is interesting that Vāsiṣṭhīputra Śaktivarman is said to have been born of a Māgadha family.¹ Māgadha is a mixed caste sprung from Vaiśya father and Kṣatriya mother, the duty of the members of which caste is that of professional bards (Manu, X, 11 & 17; Yajñavalkya, I, 94). The epithet *kaliṅgādhipati* seems to suggest that the claim of *kaliṅgādhipatitva* of one of the two lines of Piṣṭapura and Simhapura was, at one time, challenged by the other.²

The names of the other states mentioned above cannot be satisfactorily identified. It does not appear quite unreasonable to think that after the downfall of the Ceṭa dynasty to which the great Khāravela belonged, Kaliṅga became split up into a number of petty principalities and that the state continued as late as the time of Samudragupta's invasion. The history of Kaliṅga in about the 5th century A.D., was possibly marked by the rivalry between the royal houses of Piṣṭapura and Simhapura for the supreme authority over Kaliṅga. The line of Simhapura

¹ Māgadha-kula here seems to have nothing to do with Magadha.

² Besides these "lords of Kaliṅga" there is reference in the Sarabbharam plates (Ep. Ind., XIII, p. 304), to an unnamed "lord of Cikura." This "lord of Cikura," according to Prof. Dubreuil, was "probably not a king of Kaliṅga, but only a simple feudatory" (Anc. Hist. Doc., p. 94).

was possibly overthrown by the Gaṅgas in about the beginning of the 6th century A.D.¹

In conclusion let me refer summarily to the grants of the kings of Sarabhapura (Bhandarkar's *List*, Nos. 1878-1881). These grants are assigned to the 8th century A.D., but may be a little earlier. The above four inscriptions, all issued from Sarabhapura, have been found in C. P. ; but, according to Sten Konow (*Ep. Ind.*, XIII. p. 108), Sarabhapura may probably be identical with the modern village of Sarabhavaram, in the Chodavaram Division, ten miles east from the bank of the Godavari and twenty miles from Rājahmundry. L. P. Pandeya has described (*Ind. Hist. Quart.*, IX, p. 595) a coin belonging to the Sarabhapura kings whom he takes to be feudatories of the Pāñdava kings of Kośala. If the identification of Sten Konow is correct, we have another royal family in the Kaliṅga country, the earlier members of which family may have ruled about the end of the 6th century.

3. *The term "Sālankāyana" and the Religion of the Sālankāyanas.*

The word *sālankāyana*, according to the Sanskrit Lexicons *Trikāndasēsa* and *Medinī*, means *Nandin*, the famous attendant or *vāhana* of Śiva. It is interesting to note that the figure of a

¹ Curiously enough we find a line of kings, with names ending in-*rāman* ruling over parts of Eastern and Southern Bengal in about the tenth and eleventh centuries A.D. The ancestors of these " Varmans "—as they style themselves in their inscriptions—are said to have once occupied Simhapura. Cf. *varmmāno-tigabhiranāma dadhatāḥ slāghyau bhujau bibrato bheujā simhapuram guhām =va myrgendrānām harer=bāndhavāḥ*, Belava grant of Bhojavarmaṇ (Ep. Ind., XII, p. 37), son of Sāmavarmaṇ, grandson of Jātararmaṇ and great-grandson of Vajravarmaṇ. The Bengal Varmans, like the Varmans of the Lakkhamandal inscription, trace their descent from Yaḍu. Evidently they claim connection with the Yaḍavas (Cf. *harer=bāndhavāḥ* in the passage quoted above). It is possible that a second branch of the Punjab Varmans migrated into Bengal. It may also be conjectured that the Varmans of Kaliṅga when they were displaced from Simhapura (by the Eastern Gaṅgas ?), marched towards the east and carved out a principality somewhere in South or South-east Bengal. They appear to have supplanted the Candra dynasty of Eastern Bengal possibly after it was shaken by the defeat of " Govindacandra of Vampālaḍēśa " inflicted by that Indian Napoleon, Gaṅgaikoḍa Rājendra Cola I, in about 1028 A.D.

bull (*i.e.*, Nandin) is found on the seals of the Śālaṅkāyana kings, whose copper-plate grants have so far been discovered (*vide infra*). It is therefore not quite impossible that the Bull banner of the Śālaṅkāyana kings was connected with the name of their family.

Fleet, while editing the Kollair plates, suggested that the term Śālaṅkāyana means the Śālaṅkāyana-gotra. Though the Śālaṅkāyana kings are never called Śālaṅkāyana-*sagotra* according to the way in which *gotras* are referred to in early South Indian inscriptions, the theory of Fleet cannot be dismissed as impossible. There are, however, more than one *gotra* of the name of Śālaṅkāyana, and it is not possible to find out to which one of these *gotras* our kings belonged. There is one *gotra* called Śālaṅkāyana, which belongs to the Viśvāmitra section and has the *pravaras* Vaiśvāmitra, Kātya and Ātkīla. But the word Śālaṅkāyana used in the Ellore grant of Devavarman seems to be the Prakrit form of Śālaṅkāyana, which is the spelling used in all the other grants of the family. There are however four *gotrarsis* named Śālaṅkāyana. The first of them belongs to the Bhṛgu section and has the *pravaras* Bhārgava, Vaitahavya and Sāvedasa. The second belongs to the Bharadvāja section and has the *pravaras* Āṅgirasa, Bārhaspatya, Bhāradvāja, Sainya and Gārgya. The third belongs to the Viśvāmitra section and has the *pravaras* Vaiśvāmitra, Daivarāta and Audala ;—the fourth also belongs to the Viśvāmitra section, but has the *pravaras* Vaiśvāmitra, Śālaṅkāyana and Kauśika (See P. C. Rao, Gotranivandha-kadambam, Mysore).

We know very little of the early history of the Śālaṅkāyanas. It has been noticed (Journ. Andhra Hist. Res. Soc., V. 23) that the terms Śālaṅkāyana and Śālaṅkāyanaka (country of the Śālaṅkāyanas) are mentioned in the Gaṇapāṭha of Pāṇini. It is however certain that the Śālaṅkayanas (Greek Salakēnoi) ruled over the Ven̄gi region as early as the time of Ptolemy (c. 140 A. D.).

We have already said above that the seals of the Śālaṅkāyana kings bear the figure of a bull, which is probably to be

identified with Nandin. This fact and names like Nandivarman (one whose protector is Nandin) and Skandavarman (one whose protector is Skanda, son of Siva) in the family, possibly show that the family religion of the Śālaṅkāyanas was Saivism. It must also be noticed that all the Śālaṅkāyaṇa kings, in their inscriptions, call themselves *Bhagavac-citrarathasvāmi-pādānudhyāta*, i.e., meditating on the feet of Lord Citrarathasvāmin. Citrarathasvāmin is evidently the name of the family deity of the Śālaṅkāyaṇa Mahārājas of Venugī which has been identified with the village of Peddavegi near Ellore in the West Godavari District. In this connection we must notice what Dr. Hultzsch has said (Ep. Ind., IX. 58) : "The correctness of this identification is confirmed by the existence of a mound which on a visit to Pedda-Vegi in 1902 was shown to me by the villagers as the site of the ancient temple of Citrarathasvāmin, the family deity of the Śālaṅkāyaṇa Mahārājas."

The word *citraratha* according to Sanskrit Lexicons means the Sun. K. V. Lakshmana Rao therefore suggested that Citrarathasvāmin mentioned in the Śālaṅkāyaṇa inscriptions was the Sun-God. It, however, appears to me that, as the family religion of the Śālaṅkāyanas was in all probability Śaivism, Citrarathasvāmin was possibly a form of Lord Siva.

It must be noticed here that while, in the inscriptions, king Devavarman has been called *parama-māhessara*, king Nandivarman II is called *parama-bhāgavata*. K. V. Lakshmana Rao, who believes that the religion of the Śālaṅkāyanas was Saivism, remarks (Journ. Andhra Hist. Res. Soc., V. 25) : "Because this epithet (scil. *parama-māheśvara*) was changed into that of *parama-bhāgavata* by the successors of this king (scil. Devavarman), we need not infer that the later Śālaṅkāyanas changed their Saiva faith and became Vaiṣṇavas. Bhāgavata did not necessarily mean in those days a worshipper of Viṣṇu, and the followers of Siva also were called Bhāgavatas. We have the authority of the venerable Patañjali (*on Pāṇini, V. 2. 1) for the usage of the word Siva-Bhāgavata."

It is difficult to agree with Lakshmana Rao. In all the three inscriptions of Nandivarman II, the king is unanimously called *parama-bhāgavata*, which in its general sense suggests that the king was a devotee of Bhagavān Viṣṇu. It must be noticed that no other Śālaṅkāyana king is as yet known to have used this epithet. Moreover, we know from the Peddavegi plates that Nandivarman II granted no less than 32 *nivartanas* of land (95·2 acres according to Kauṭilya whose *nivartana*=2·975 acres, but 23·4 acres according to a commentator whose *nivartana*=·743 acre. See *above*, p. 41, note) in order to make a *devahala* for the god Viṣṇu-grha-svāmin, the lord of the three worlds. This *devahala* was cultivated by the local *vrajapālakas* and the produce was evidently received by the authorities of the Viṣṇu-grha (temple of Viṣṇu). The word *devahala* appears to mean “ploughable lands, dedicated for the enjoyment of a god.” (*Cf.* *rrajapālakānām kraṣṭum devahalan=kṛtvā*; see *below*, p. 80). This Viṣṇu-grha-svāmī (lord of the temple of Viṣṇu) was evidently a form (*vigraha*) of lord Viṣṇu. Dedication of lands in honour of Viṣṇugrha-svāmī and the epithet *parama-bhāgavata* together leave hardly any doubt that the Śālaṅkāyana king Nandivarman II was a Vaiṣṇava.

4. *Deraranya (=Devavarman).*

The earliest known Śālaṅkāyana king Devavarman has been called a devotee of Maheśvara. He is also credited with the performance of an *aśramedha* sacrifice (*assamedha-yājī*). He, therefore, seems to have been a prince of considerable importance.

In this connection it is necessary to discuss the view of K. V. Lakshmana Rao (Journ. Andhra Hist. Res. Soc., V. 24) who thus remarked on the epithet *Aśramedha-yājī* (performer of the horse-sacrifice) applied to Śālaṅkāyana Devavarman in the Ellore Prakrit plates: “I am of opinion that the boast of Aśvamedha (horse-sacrifice) started with the Imperial Guptas, and the contagion spread to the minor dynasties like the Chedis (? Traikūṭakas), the Vākāṭakas, the Kadambas, the Śālaṅkāyanas and others.

The proximity in time of Vijaya Devavarman to Samudra Gupta's South Indian triumphal march, in my opinion, explains the insertion of the word Assamedha-yājinā (l. 5.) in the grant of Vijaya Deva. He must have seen some of the Imperial grants with similar titles and coolly imitated them." My theory, however, is exactly opposite to what has been propounded by Lakshmana Rao.

The first point to notice here is that there is no reference to any titles like *Aśvamedha-yājī* in the Gupta records. If, however, we take that the epithet of Devavarman is an imitation of *cirotsann-āśvamedh-āhartā* found in the Gupta inscriptions, we are to think that the Śālaṅkāyana king lived to see the records of Samudragupta's successors, because we do not get the epithet in his own inscriptions.

But we have already shown that this Śālaṅkāyana Devavarman is earlier than Samudragupta's contemporary Hastivarman of Veṅgī and, therefore, ruled before the Gupta emperor's southern expedition. As king Devavarman appears to have ruled in the first half of the 4th century A.D.,¹ it may be that the idea of performing the horse-sacrifice was borrowed not by the Śālaṅkāyanas from the Guptas, but by the Guptas from the Śālaṅkāyanas.

Whatever the value of this suggestion may be, I have no doubt that Samudragupta got the inspiration of performing the *Aśvamedha* from his connection with Southern India which may rightly be called the land of Vedic customs. Even at the present day, South India represents Vedic rituals more truly and fanatically than Northern India. So we may see it was also in ancient times. In comparison with the number and variety of Vedic sacrifices performed by early South Indian rulers, like the Sātavāhana king² referred to in the Nanaghat inscription

¹ He cannot be earlier than A.D. 300. Unlike the Sātavāhana and Ikṣvāku inscriptions, and like literary Prakrit, his grant in almost all cases expresses double-consonants by two letters and contains the usual imprecatory verses in Sanskrit. On linguistic grounds his reign is to be placed a little later than the accession of Śivaskandavarman (c. 300 A.D.), i.e., about 320–345.

² This Sātavāhana king who has been taken to be the same as Śātakarpi, husband of Nāganikā, must have ruled before the Christian era.

No. 1 (A. S. W. I., V. 60 ff.), the Ikṣvāku king Vāsiṣṭhīputra Cāṁtamūla I, the Vākāṭaka king Pravarasena I and the Pallava king Śivaskandavarman¹ the one *aśvamedha* performed by Gājaya-na-Sarvatāta (c. 250 B.C., I.H.Q., IX, p. 795), the two by Puṣyamitra (E.I., XX, p. 57) and the two² performed by the Gupta kings Samudragupta and Kumāragupta I, are rediculously insignificant. So, the South might well have been teacher of the North in this respect.

By the by it may be said that the view of Mr. Lakshmana

¹ Like all early Prakrit inscriptions, the Ikṣvāku records express double-consonants by single letters. This fact seems to show that the Ikṣvāku kings are earlier than the Pallava king Śivaskandavarman whose grants in most cases express double consonants by two letters and have passages in them written in Sanskrit, and the legend on whose seal is also written in Sanskrit. As the Ikṣvākus succeeded the Sātavāhanas about the end of the first quarter of the 3rd century, Śivaskandavarman can hardly be placed earlier than A.D. 300 ; but he seems to have ruled before the Kāñceyaka Viṣṇugopā who came in conflict with Samudragupta about the middle of the 4th century.

² Allan, Catalogue, pp. 68-69. The official Gupta records do not credit Samudragupta with the performance of *many aśvamedhas*. In the Poona plates of Prabhāvatigupta, however, he is called *anekāśvamedhayājī* (performer of many horse-sacrifices). The boast seems to me to be unfounded. First, if Samudragupta performed more than one *aśvamedha* his successors would have emphatically mentioned it in their official records. The Gupta kings after Samudragupta cannot be called reserved with reference to boasts; as has been noticed by Dr. Raychaudhuri (Pol. Hist. Anc. Ind., 3rd ed. p. 314), even the epithet *cirotsann-āśva-medhāhartā*, applied by them to Samudragupta, is an exaggeration. Secondly, there appear to be some mistakes in the grants of Prabhāvatī (J. A. S. B., N. S., XX, 58; Ep. Ind., XV, 41). Here Ghaṭotkaca has been called the *ādirāja* (first king) of the Gupta family, while the official Gupta records begin the line from Mahārāja Gupta. The passage *gupt-ādi-rāja mahārāja-śri-ghaṭotkaca* (Ep. Ind., XV, 41) has, however, been translated by Messrs. Pathak and Dikshit as "Ghaṭotkaca, who had Gupta as the first." That the word *gupt-ādirāja* is an instance of the *Śaṣṭhi-tatpuruṣa* compound, and not of the *Bahuvrihi*, is clear from the Riddhapur plates (J. A. S. B., N. S., XX, 58), where we have *guptānām-ādirāja*, which can only mean "the first king of the Guptas." Thirdly, in these inscriptions, Candragupta I has the simple title Mahārāja, while in the records of his successors he is always styled Mahārājādhīrāja. Even Samudragupta is called Mahārāja in the Riddhapur plates. Fourthly, some attributes, such as *sarvarāj-occhettā*, applied to Samudragupta in the Gupta records, are here applied to Candragupta II. These, I think, prove that references to the Guptas in the Vākāṭaka records were not very carefully drawn.

Moreover, as has been noticed by Divekar (Ann. Bhānd. Inst., VII, 164-65), Samudragupta performed the *aśvamedha* late in life, i.e., after the engraving of the Allahabad pillar inscription, which does not make mention of any such sacrifice. It is, therefore, doubtful whether Samudragupta had time to perform *aneka-aśvamedha*.

Rao with reference to the *Asramedha* of the Vākāṭakas is also untenable. The Vākāṭakas do not appear to have been inspired by the example set by Samudragupta. The Vākāṭaka King Pravarasena I who claims to have performed four *asvamedhas*, along with *agniṣṭoma*, *āptoryāma*, *ukthya*, *śoḍaśī*, *atirātra*, *bṛhaspatisai* and *sādyaskra* (Corp. Ins. Ind., III, p. 97), appears to be earlier than Samudragupta. We know that Prabhāvatiguptā, grand-daughter of Samudragupta, was given in marriage to the Vākāṭaka king Rudrasena II, who was grandson's grandson of Pravarasena I. A chronological chart is given for easy reference.

| Vākāṭaka. | Gupta. |
|--------------------------------------|--|
| Pravarasena I | |
| | |
| Gautamiputra | |
| | |
| Rudrasena I | Candragupta I (acc. 320 A.D.) |
| | |
| Prthivisena I | Samudragupta (c. 330-875) |
| | |
| Rudrasena II married Prabhāvatiguptā | |
| | daughter of Candragupta II (c. 375-414). |

It therefore appears that Rudrasena I Vākāṭaka was a contemporary of Samudragupta's father Candragupta I, who began to reign in 320 A.D. It is not impossible that the beginning of the reign of Pravarasena I, grandfather of Rudrasena I fell in the 9th or the 10th decade of the 3rd century A.D. So, if any was the borrower, it was the Guptas, and not the Vākāṭakas. Pravarasena I could, however, have got the inspiration from his relatives, the Bhāraṭivas, who have been credited with the performance of ten *asvamedha* sacrifices.¹

¹ Corp. Ins. Ind., III, p. 96. That this Pravarasena I was earlier than Samudragupta can also be proved from the evidence of the Purṇas. The Purṇas which do not mention any Gupta king by name and which limit the Gupta rule within the area—*anugarganaprayāgañ=ca sāketa-magadhām-s=tathā* (Vāyu, Ch. 99, Verse 383), not only mention Vindhyāsakti and his son Pravira (doubtless, Pravarasena I), but also refer to the performance of some *Vājapeya* (according to one Ms. *vājimedha*) sacrifice by the latter. Cf.

Vindhyaśakti-sutas = c=āpi Pravironāma vīryavān
bhokṣyanti ca samāḥ saṅśiṣṭ puriṣ Kāñcanaśū = ca vai

The Ellore plates, dated in the 13th year of king Devavarman and issued from Venkipura, records the gift of 20 *nivartanas* of land in Elura (modern Ellore in the West Godavari District) to a Brahman named Gaṇaśarman belonging to the Babhura (Babhu) gotra. The Brahman was also given a house-site for himself and others for his *addhiya manussas* ("men who receive half the crop;" *addhika* of the Hirahadagalli grant; Sanskrit *ārddhika*. Cf. Mitākṣarā on Yājñavalkya, I. 166) and *dvārgas* (door-keepers). Gaṇaśarman was exempted from all taxes, and protection of the immunities was ordered by the king.

The exact meaning of Muluḍa in the passage *elure muluḍapamukho gāmo bhānitavvo* (villagers of Elura headed by Muluḍa should be informed) is not clear. The same word evidently occurs in some other Śālaṅkāyana inscriptions, where it has been differently read as *mutyada*, *munuda*, etc. The word which seems to be *mutuda* or *mutuḍa* on some plates, possibly means "the head of a village." Fleet's interpretation of *mutyada* (Ind. Ant., V. 176) as "ministers and others" (*mantri*+ādi) is certainly untenable.

The seal of king Devavarman attached to the Ellore plates is, according to Hultzsch, "all but obliterated, but a faint trace of some quadruped—perhaps a tiger—can be seen" (Ep. Ind., IX. 57). The figure is, in all probability, that of a bull, which is found on the seals of the other two Śālaṅkāyana kings.

5. *Hastivarman, Nandivarman I and Candavarman.*

As we have seen, the names of the Śālaṅkāyana kings Hastivarman and Nandivarman I are found only in the Peddavegi plates of Nandivarman II. The name of Candavarman is found in the Peddavegi and the Kollair plates. Since we have no

yakṣyanti Vājapeyaiś—ca samāpta-vara-dakṣiṇaiḥ. Vāyu (Bangabasi Ed.), Ch. 99, verses 371-72.

For fuller details, see my paper on *Semudragupta's Aśvamedha Sacrifice* in Journ. Ind. Hist., XIII, (July, 1934), pp. 35 ff.

grants issued by any of these three kings, very little is so far known about them.

In the Peddavegi plates Mahārāja Hastivarman is called *aneka-samar-āvāpta-vijaya* (one who attained victory in many battles). It may be noticed here that the Allahabad pillar inscription, which refers to the conflict between Samudragupta and king Hastivarman of Veṅgī, speaks of the different natures of the North Indian and South Indian expeditions of the Gupta monarch. While he is said to have "uprooted" the kings of the Āryāvarta, he is said to have followed a policy of "capture and liberation" with regard to the kings of the Dakṣināpatha. It is, therefore, certain that the Gupta emperor was not so lucky as regards his southern expedition., and it may not be impossible that the reference to the victory in *aneka-samara* of the Śālaṅkāyana king includes also his *samara* with Samudragupta.

The epithet *pratāp-opanata-sāmanta* applied to king Caṇḍavarman shows that he was not quite a petty chief and that some subordinate rulers acknowledged his suzerainty.

6. Nandivarman II.

The Śālaṅkāyana king Caṇḍavarman was succeeded on the throne by his eldest son (*sūnur=jaistha*) Nandivarman II. As we have seen, this king has been called *parama-bhāgavata* in all his inscriptions. Evidently he was a Vaiṣṇava and gave up the traditional Saivism of the Śālaṅkāyana kings.

Three copper-plate grants of this king have so far been discovered. They were all issued from Veṅgīpura.

I. The Kanteru plates (Journ. Andhra Hist. Res. Soc., V. 21) record a notice of the king to the Mutuda and the villagers of Kuruvāda in the Kudrābhāra-viṣaya. It is notified hereby that twelve *nivartanas* of land in the said village were granted, for the increase of the king's *dharma*, *yāśah*, *kula* and *gotra*, to a Brahman named Svāmidatta, who belonged to the Maudgalya gotra.

The Kudrāhāra-viṣaya, which is possibly the same as Kudūrahāra of the Kondamudi plates of Jayavarman, has been identified, as we have said above, with “the country adjoining the modern town of Masulipatam (Bandar)” (Anc. Hist. Dec., p. 85). This region was formerly occupied by the Br̄hatphalāyanas and before them possibly also by the Ikṣvākus.

The seal attached to the Kanteru plates has, in relief, the figure of a bull in couching position (J. Andhra Hist. Soc., V. 21).

II. The Kollair plates (Ind. Ant., V. 176), issued in the 7th regnal year, record another notice of the king to the Mutuda and the villagers of the Videnūrapallikā-grāma, situated in the same Kudrāhāra-viṣaya (Ep. Ind., IX. 58 n). The village is hereby granted to 157 Brahmanas of different gotras, who were then resident at the *agrahāra* of Kuravaka-Śrīvara. The village was to be treated with immunities from all taxations, and the immunities were to be preserved by the *deśādhipatis*, *āyuktakus*, *vallabhas* and the *rāja-puruṣas*. This inscription is very important as it furnishes us with a sidelight into the Śālaṅkāyana administrative system. From the official designations, mentioned with reference to the protection of the *parihāras*, it appears that the Śālaṅkāyana kingdom was divided into several *deśas* (provinces), which were governed by the *deśādhipatis*. *Āyuktas* are mentioned in the Allahabad pillar inscription of Samudragupta as “restoring the wealth of the various kings, conquered by the strength of his arm” (C.I.I., III. 14). An *āyukta* is mentioned as a *viṣayapati* (Head of a Province or District) in an inscription of Budhagupta (Ep. Ind., XV. 138). According to the Lexicographer Hemacandra an *āyukta* is the same as the *niyogin*, *karma-saciva* (cf. *karmasaciva-matisaciva*, E.I., VIII, p. 44) and *vyāprta*. We know from the Kondamudi plates (*Above*, p. 84) that a *vyāprta* was in charge of an *āhāra* (district). It therefore seems that the term *āyukta* also signifies “ruler of a District.” The term *vallabha*, according to Amara, means *adhyakṣa*, which has been explained by the commentator as *gav-ādhyakṣa* (see *Śabdakalpadruma*,

s. v.). *Vallabha* therefore, appears to be the same as *go-'dhyakṣa* (Superintendent of Cows) mentioned in Kautilya's *Arthaśāstra*.¹ The *rāja-puruṣas* (royal agents) are also found mentioned in the *Arthaśāstra*. They appear to be the same as the *pulisas* of the inscriptions of Aśoka.

The *ājñapti* or executor of the grant was the *Bhojaka* of *Mulaku*.² The term *bhojaka* (lit. enjoyer) has been taken to mean "free-holder." They appear to have been like the *Jāgīrdārs* of the Muslim period. *Bhoja*, according to the *Mahābhārata*, means persons who were not entitled to use the title "king" (*Arājā bhoja-sabdam trāṇa tatra prāpsyasi sānvayah*, Ādi., 84. 22). According to the *Aitareya-Brāhmaṇa* (VII, 32; VIII, 6. 12. 14. 16-17) *bhoja* was the title of South Indian kings. The term *bhojaka* in a degraded sense, may, therefore, mean a *jāgīrdār* or a protected chief. In some inscriptions, the *Bhojakas* are mentioned along with the *Rāṣṭrikas* (probably the same as the *Desādhipatis*), e.g., *rāthika-bhojaka* in the *Hati-gumpha* inscription of *Khāravela*. It is not impossible that later on they styled themselves *Mahā-rāthikas* (*Mahārāthis*) and *Mahā-bhojakas*, and that the name of the country still known as *Mahārāṣṭra* owes its origin to the former.

III. The Peddavegi plates (Journ. Andhra Hist. Res. Soc., I. 92) issued in the 10th year of the reign of king Nandivarman

¹ It must however be noticed in this connection that the Hirabadagalli grant of Pallava Śivaskandavarman (Ep. Ind., I. pp. 2 ff.) makes mention of *vallava* and *go-vallava* in the same passage and evidently makes a distinction between the two terms. According to Sanskrit lexicons *vallava* means a *gopa*, a cowherd. But the other word *go-vallava* certainly means a cowherd and appears to be the same as *vallava* and *vallabha* of Sanskrit lexicons. What is then the meaning of the term *vallava* in the Hirabadagalli grant? Curiously enough, the word *vallabha* according to the Lexicographer *Jaṭādhara* is a synonym of *āvaraṇa*, i.e., keeper of horses. The passage *vallava* (= *vallabha* of *Jaṭādhara*)-*govallava* of the Hirabadagalli grant therefore appears to mean "the Keepers of horses and the Keepers of cows."

² Fleet's translation (Ind. Ant., V. 177) of the passage *(al)-ājñapti(r)=mulakubhojakak* as "the command confers the enjoyment of the original royal dues there" should now be given up.

II, eldest son of Caṇḍavarman, grandson of Nandivarman I, and great-grandson of Hastivarman, records a notice of the king to the mutuda (or mutuda) and the villagers of Prälura-grāma. The king is said to have hereby granted a *devahala* to Viṣṇu-gr̄ha-svāmin, lord of the three worlds. *Devahala* is evidently the same as *devabhogahala* of the passage *devabhogahala-varjjam*, which is so common in the Pallava grants and has been translated by Hultzsch as “with the exception of cultivated lands enjoyed by temples” (Ep. Ind., VIII. 165). Fleet (Ind. Ant., V, p. 157 and note) translated the same passage as “with the exception of the plough of the possession of the god” and remarked, “The meaning would seem to be that the grant did not carry with it the right to some cultivated land in the same village which had already been given to the village-god. A similar word is *bhikhu-hala* (=bhikṣuhala, i.e., cultivated land offered to the Buddhist monks) which occurs in the Nasik cave inscription No. 3 and a Karle cave inscription, and has been ably explained by Senart (Ep. Ind., VII, p. 66). These technical words signified religious donations along with certain privileges (*parihāras*). The *devahala* granted by Nandivarman II was to be cultivated by the *vrajapālakas* (herdsmen) and comprised 10 *nivartanas* of land at Arutora, 10 *nivartanas* at Mundura-grāma, 6 *nivartanas* at Ceñceruva-grāma and 6 *nirvartanas* at Kambarañceruva. The *desādhipatis*, *āyuktakas*, *rallabhas* and the *rāja-purusas* were ordered to protect the grant. The executor of the grant was the Bhojaka of Mulakura, possibly the same as that of the Kollair plates. The grant was written by a *rahasyādhikṛta* (Privy Councillor. Cf. *matisaciva* of the Junāgad̄h inscription of Rudradāman, Ep. Ind., VIII, pp. 44 ff., line 17), whose name was Kāṭikūri.

7. *Skandavarman.*

Only one inscription of king Skandavarman has so far been discovered. It is the Kanteru grant, issued from Veṅgī and

dated in the 1st year of the king's reign. It records a royal notice to the villagers of Kuduhāra-Cinnapura. It is hereby declared that the said village was granted to Sivārya of the Maudgalya gotra, a resident of Lekumārigrāma. All the officers including the *āyuktakas* and the *viśayapatis* were ordered to make it immune from all taxations (*sarva-niyoga-niyukt-āyo(yu)ktaka-viśayapatimīśraiḥ sā pallikā parihartavyā*). The mention of the *viśayapati* in this connection possibly shows that the *deśas* or provinces of the Śālaṅkāyana kingdom were further subdivided into *viśayas* (districts), each of which was under a *viśayapati*. The *Āyuktakas* appear to have ruled the subdivisions (*āhāras*?) of the *viśayas*.

We do not definitely know whether Kuḍuhāra is the same as Kudrāhāra and whether Kuduhāra-Cinnapura means "Cinnapura in Kuḍuhāra." Cinnapura has been identified with the present village of Cinnapuram in the Bandar tāluka (Journ. Andhra Hist. Res. Soc., V. 25-26).

According to Lakshmana Rao there is the figure of a bull on the seal of Skandavarman attached to the Kanteru plates.

APPENDIX B.

THE PEDDAVEGI PLATES OF NANDIVARMAN II.

The Peddavegi plates appear to be in an excellent state of preservation. All the characters are perfectly legible.

These plates were edited by Mr. R. Subba Rao in Journ. Andhra Hist. Res. Soc., I. 92 ff. My reading is based on the excellent plates published along with Mr. Subba Rao's paper.

Text.

1st Plate : 2nd Side

- L. 1. Svasti[|| *] Vijaya-Veṅgīpurān = naika(d = aneka)-
samar-āvāpta-vijayino(vijayasya)
- L. 2. I. Hastivarmma-mahārājasya prapautrah(°tro) vivi-
dha-dharma-
- L. 3. pradhānasya Nandivarmma-mahārājasya pautrah

2nd Plate : 1st Side

- L. 4. pratāp-opanata-sāmantasyā(sya) Caṇḍavarmma-
mahāra(rā)ja-
- L. 5. II. sya putro jyeṣṭhaḥ(śtho) bhagavac-Citrarathasvāmi-
- L. 6. pād-ānudhyāto bappa-bhaṭṭārakapāda-bhaktah

2nd Plate : 2nd Side

- L. 7. parama-bhāgavataś = Śālaṅkāyano Maha(hā)rāja-
gri(Srī)-Nandi-
- L. 8. varmmā Prālura-grāme Mutuda-sahitān = grāmeya-
- L. 9. kān = sama(mā)jñāpayati[|| *] Asti(asty =) asmad-
dharmma-yaśo-'bhi-

3rd Plate : 1st Side

- L. 10. vṛddhy-arthan = triloka-nāthasya Viṣṇugṛhasvā-
mina[h] Aṛu(°no = 'ṛu)-
- L. 11. III. tōre vraja-pālakānām kraṣṭum devahalañ = kṛtvā
- L. 12. (a)smābhīr = bhūmi-nivarttanāni daśa X tathaiva

3rd Plate : 2nd Side

- L. 13. Muṇḍūra-grāme bhūmi-nivarttanāni daśa X
Ceñceru-
- L. 14. va-grāme bhūmi-nivarttanāni ṣat VI tath = ai-
- L. 15. va Kamburāñceruve bhūmi-nivarttanāni ṣat VI

4th Plate : 1st Side

- L. 16. . de(da)ttāni[||*] Tad = avagamya desādhipaty-
āyuktaka-valla-
- L. 17. IV. bha-rājapurūṣ-ādibhir(h) = pariharttavyāni||
- L. 18. Pravarddhamāna-vijaya-rājya-sampvatsarasya dasa-

4th Plate : 2nd Side

- L. 19. maysa X Srāvaṇa-māsa-śukla-pakṣasya Pratipa-
di paṭṭikā dattā[||*] Ājñā(jñā)ptir = Mulakūra-
bhojaka [h||*]
- L. 21. Likhitaṁ rahasyādhibhṛtena Kāṭikūriṇā[||*]

5th Plate : 1st Side

- L. 22. Bahubhirv = vasudhā dattā bahubhiś
= c = ānupālitā [| *]
- L. 23. V. Yasya yasya yadā bhūmi[s*] = tasya tasya
tadā phalamp[||*]
- L. 24. Śaṣṭi-varṣa-sahasrāṇi svarge krīḍati
bhūmidah[| *]

5th Plate : 2nd Side

- L. 25. Ākṣeptā c = ābhimantā ca tāny = eva narake
vased = iti(h)[||]
-

CHAPTER V

THE VIŚNUKUNDINS.

1. Genealogy of the Viśṇukundins.¹

The history of the Viśṇukundins has been touched by scholars like Kielhorn, Hultzsch, Dubreuil and many others. The author of these pages holds an altogether different view as regards the genealogy and chronology of the dynasty. The question of genealogy shall be discussed in the present and that of chronology in the next section.

The first known inscription of the Viśṇukundins is the Chikkulla plates edited by Kielhorn in Ep. Ind., IV. 193 ff. These plates give us the following line of kings :—

1. Mahārāja Mādhavavarman; his son
2. Vikramendravarman (I); his son
3. Mahārāja Indrabhattārakavarman; his eldest son
4. Mahārāja Vikramendravarman (II); (10th year).

Then come the Ramatirtham plates, edited by Hultzsch in Ep. Ind., XII. 133 ff. Here we have the following line :—

1. Mahārāja Mādhavavarman; his son
2. Rājā Vikramendra; his son
3. Rājā Indravarman; (27th year).

There can hardly be any doubt that the Rājā Indravarman of the Ramatirtham plates is identical with the Mahārāja Indrabhattārakavarman of the Chikkulla plates.

¹ My paper on the Viśṇukundin genealogy was originally published in *Ind. Hist. Quart.*, IX, pp. 273 ff.

Next we have two sets of copper-plate grants belonging to this dynasty, which were found at a place called Ipur in the Tenali tâluka of the Guntur District. They were edited by Hultzsch in Ep. Ind., XVII. In the first set of these plates, (*ibid.*, p. 334) we have the following line :

1. Mahârâja Govindavarman ; his son
2. Mahârâja Mâdhavavarman (37th year) ; his son
3. Mañcañña-bhâtîraka.

Hultzsch, on grounds of palæography, identified Mâdhavarman of the first set of the Ipur plates with the king of the same name in the Ramatirtham and Chikkulla plates. It can be easily shown that later writers, who have disapproved of this identification as unwarranted, are themselves wrong. The epithets applied to the name of this king, as found in the Chikkulla, Ramatirtham and Ipur (set I) plates, clearly establish the identity. Let us here quote the corresponding passages of the three inscriptions.

1. Chikkulla plates : *Ekâdas-âsvamedh-âvabhrit-(bhṛth)-âvadhauta-jagadka(t-ka)maṣasya kratu-sahasra-yājina[ḥ] sarvamedh-âvâpta-sarvvabhûta-svârîjyasya bahusuvarṇa - pauṇḍarîka-puruṣamedha-vâjapeya-yudhya-sodaśi-râjasüya-prâdhîrâjya - [prâ] jâpaty-âdy-aneka-vividha-prthu-guru-vara-śatasahasra-yâjina [*ḥ] kratuvar-ânusṭhât-âdhiṣṭhâ-pratiṣṭhita-parameṣṭhitvasya mahârâjasya sakala-jagan-mândala-vimala-guru-pri(pr) thu-kṣitipati-makuṭa-maṇi-ga[ṇa-ni] kar-âvanata-pâdayugalasya mâdhavavarmanmaṇa[ḥ].*

2. Ramatirtham plates : *Sakala-mahî-mândal-âvanata-sâmanta-makuṭa-maṇi-kiran-âvalîdha-carâna-yugo vikhîtâ-yaśâḥ śrîman-mahârâja-mâdhavavarmanmâ-tasy - orjitaśrî - viṣṇukuṇḍi-pârtthiv-odit-odit-ânvaya-tilaka-[samudbhût-ai] kâdaś-âsvamedh-âvabhrtâ(thâ)-vidhauta - jagat- kalâmaṣa - kratusahasra- [yâ]jinaḥ snâna-puṇyodaka-pavitrîkṛta-śirasaḥ.*

3. Ipur plates (set I) : *Smṛti-mati-bala-satva(ttva)-dhairyya-viryâ-vinaya-sampannaḥ sakala-mahîmândala-manujapati-prati-*

pūjita-sāsanah(°nas =) trivara-nagara-bhavana-gata-yuvati-hṛdaya-nandanah sva[na]ya-bala-vijita-sakala-sāmant-ātula-bala-vinaya-naya-niyama-satva(ttva)-sāmpannah sakala-jagad-avanipati-pratipūjita-sāsanah agniṣṭoma-sahasra-yāji-hi[*ra]nyāgarbbha-prasūta(h) ekā-dāś-āśvamedh-āvabhṛtha-vidhūta - jagat - kalmaṣah susti(sthi)ra-karṇma-mahārāja-śri-mādhavavarmanā.

When we remember the fact that no other Viṣṇukuṇḍin king is as yet known to have performed a single sacrifice of any kind except the one named Mādhavavarman and when we note further the unique numbers—ELEVEN *Aśvamedhas* and THOUSAND *agniṣṭomas* (*kratus*), testified to by all the above three inscriptions, there remains no doubt as regards the correctness of the identification proposed by Hultzsch.

The second set of the Ipur plates (Ep. Ind., XVII, p. 337) gives us the following line of kings :

1. Mahārāja Mādhavavarman (I) ; his son
2. Devavarman ; his son
3. Mādhavavarman (II) ; (17th ? year).

As regards Mādhavavarman (II), the issuer of this set of the Ipur plates, Hultzsch says : “ As the alphabet of the inscription seems to be of an earlier type than that of the preceding one (scil. Ipur plates : set I), and as grandsons are frequently named after their grandfather, I consider it not impossible that Mādhavavarman II was the grandfather of Govindavarman’s son Mādhavavarman, who would then have to be designated Mādhavavarman III.” A consideration of the evidence of the two sets of the Ipur plates render this theory untenable. It is to be noted that Mādhavavarman (I), the grandfather of the issuer of the Ipur plates (set II) is called in that inscription : *ekādaś-āśvamedh-āvabhṛth-āvadhūta-jagat-kalmaṣasy-agniṣṭomasahasra-yājino=’neka sāmant- makuta- kūṭa- maṇi- khacita-carapa - Yugala - kamalasya mahārājasya śri-mādhavavarmanah*. We request our readers to compare this passage with the corresponding passage quoted above from the Ipur plates (set I). Can there be any doubt

whatsoever about the identity of this Mādhavavarman (I) with the king of the same name of the Ipur plates (set I), and also of the Ghikkulla and the Ramatirtham plates ? It is highly improbable that two kings of the same name and dynasty and of the same period performed exactly equal numbers—ELEVEN and THOUSAND—of great sacrifices, such as the *āśvamedha* and the *agniṣṭoma*. We, therefore, think it perfectly justifiable to identify the king named Mādhavavarman, who has been credited with the performance of eleven *āśvamedhas* and thousand *agniṣṭomas* (*kratus*) in all the different Viṣṇukuṇḍin inscriptions.

Moreover, the theory of Hultzsch that Mādhavavarman (whom he is inclined to designate Mādhavavarman III), son of Govindavarman of the Ipur plates (set I), is the grandson of Mādhavavarman II of the Ipur plates (set II), has now been disproved by the discovery of the Polamuru plates, where Mādhavavarman, son of Govindavarman, is represented as the grandson of Vikramahendra, and not of a king entitled Mādhavavarman.

The Polamuru plates, edited¹ in the Journ. Andhra Hist. Res. Soc., VI. 17ff., give us the following line of kings :

1. Vikramahendra ; his son
2. Govindavarman ; his son
3. Mahārāja Mādhavavarman (40th ? year).

That this Mādhavavarman of the Polamuru plates can be no other than the famous performer of eleven *āśvamedhas* and thousand *agniṣṭomas* is proved by his significant epithets :—atula-balaparākrama-yaśo-dāna-vinaya-sampanno daśaśata-sakala-dharanī-tala - narapatir = avasita- vividha-divyas = trivaranagara- bhavana-gata - parama - yuvatijana- viharāṇa- ratir = anna(na)nya- nrpati- sādhāraṇa-dāna-māna-dayā-dama-dhṛti-mati-kṣanti-śoriyau (śauryau) dārya- gāmbhi (bhī)ryya- prabhṛty- aneka- guṇa-sampaj-janitara- raya-samutthita-bhūmaṇḍala-vyāpi-vipula- yaśoh (śāḥ) kratusaha- sra- yājī hiranyagarbha- prasūta(h) ekādaś-āśvamedh-āvabhrtha- snāna-vigata-jagad-enaskah sarvabhūta-parirakṣaṇa-cuñcuḥ(r)

¹ Previously edited by K. V. Lakshmana Rao in Journ. Dep. Letters, Col. University, Vol. XI, p. 81.

vidvadvi(d-dvi)ja-guru-vṛddha - tapasvijan - āśrayo mahārājah
śrī-mādhavavarinā.

It appears, however, that Mādhavavarman and Govindavarman have respectively been called Janāśraya and Vikramāśraya in this inscription, and it may be argued that they are not identical with the kings of the same names of the Ipur plates (set I). But this doubt is unjustifiable in view of the fact that Mādhavavarman of the Polamuru plates is not only called son of Govindavarman and credited with the performance of eleven *aśvamedhas* and thousand *agniṣṭomas*, but is also called *hiranyaagarbha-prasūta* and *trivara-nagara-bhavana-gata-parama-yuvati-jana-viharana-rati* (*trivara-nagara-bhavana-gata-yuvati-hṛdaya-nandana* in the Ipur plates), which epithets we find only in his own Ipur plates (set I). There can therefore be no doubt that the Ipur plates (set I) and the Polamuru plates were issued by one and the same person.

In this connection, we must notice the view of some scholars,¹ who have identified Mādhavavarman II of the Ipur plates (set II), with the king of the same name of the Chikkulla and the Ramatirtham plates, and Vikramahendra of the Polamuru plates with Vikramendravarman II of the Chikkulla plates. We have noted above that only one king of the Viṣṇukuṇḍin family may be believed to have performed sacrifices, and, though there seems to be a little exaggeration in the inscription

¹ Sewell, following K. V. Lakshmana Rao, has given the following genealogy of the Viṣṇukuṇḍin kings in his *Hist. Inv. South. Ind.* (1932), p. 404 :—

1. Mādhava I, c. A. D. 357-382.
2. Devavarma, c. 382-407.
3. Mādhava II, c. 407-444. (Ipur grant No. 2.)
4. Vikramendra I, c. 444-469.
5. Indrabhṛṭāraka, c. 469-496. (Ramatirtham grant.)
6. Vikramendra II, c. 496-521. (Chikkulla grant.)
7. Govinda, c. 521-546.
8. Mādhava III 'Janāśraya,' 546—(?) 610. (Polamuru grant and Ipur grant No. 1)
9. Maṇchappa-bhaṭṭāraka, (?) 610—?

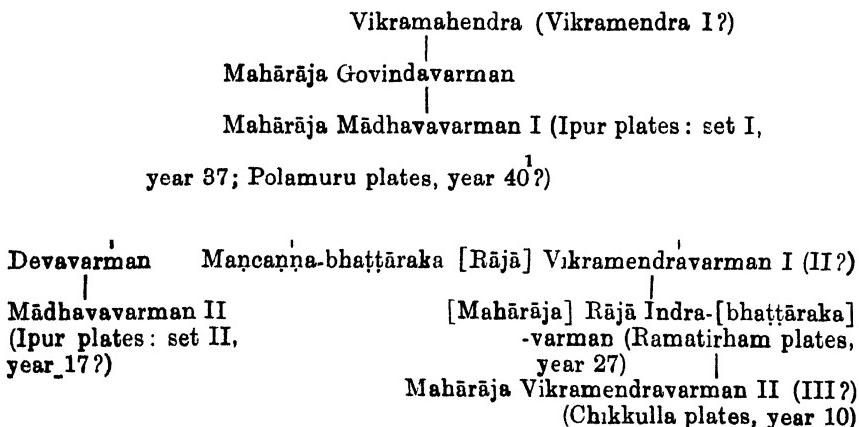
of one of his successors, in all the inscriptions of the dynasty, that king—Mādhavavarman (I), son of Govindavarman and father of Devavarman and Vikramendravarman I—has been credited with the performance of ELEVEN *aśvamedhas* and THOUSAND *agniṣṭomas* (*kratus*). As is also noted above, we think it almost impossible that there can be more than one Mādhavavarman, performer of eleven *aśvamedhas* and thousand *agniṣṭomas*, in the same family and the same period. But if we accept the above identifications we have *three* Mādhavarmans—I, II and III—all of whom were performers of eleven *aśvamedhas* and thousand *agniṣṭomas*!¹ Moreover, the identification of Mādhavavarman II of the Ipur plates (set II), with his namesake of the Chikkula and Ramatirtham plates is, in my opinion, next to impossible. In the Chikkula and Ramatirtham plates, we have the significant epithets of the great Mādhavavarman, crediting him with the performance of eleven *aśvamedhas* and thousand *agniṣṭomas*, but these epithets are conspicuous by their absence in the Ipur plates (set II) in connection with the name of Mādhavavarman II. The date of the plates, which is not fully legible but which appears to me to be year 17, has been read by Hultzsch as the 47th year of the king. Is it possible that a king, who performed among other sacrifices eleven *aśvamedhas* and thousand *agniṣṭomas*, did not perform a single of them before the 47th (if my reading is correct, 17th) year of his reign or forgot to refer to such glorious performances in his own inscription? It is also significant that Mādhavavarman II has no royal title even in his own Ipur plates (set II). Moreover, the identification becomes utterly untenable when we notice that those significant epithets regarding the performance of 11 *aśvamedhas* and 1,000 *agniṣṭomas* have been attached in this inscription to the name of his grandfather Mādhavavarman I. We therefore hold that there were only *two*, and not *three*, Mādhavarmans in the Viṣṇukuṇḍin family and that the first of them, who was the

¹ See *Above*, p. 88, note 1.

grand-father of the second, performed a good many sacrifices including eleven *aśvamedhas* and thousand *agniṣṭomas*.

As regards the second identification, nothing need be said after our identification of Mādhavavarman I, the great performer of sacrifices. But it must be noticed that his name is written in the inscription as Vikramahendra, which may be the engraver's mistake for Vikramamahendra. If, however, we take it as a slip for Vikramendra, the king should be designated Vikramendra there being two other Vikramendras in the family.

The following is the genealogical arrangement of the Viṣṇukuṇḍin princes according to our theory :



2. Chronology of the Viṣṇukuṇḍins.²

We have already dealt with the genealogy of the Viṣṇukuṇḍin kings. Here we shall discuss the order of succession of the kings of this family and the period to which they are to be assigned.

¹ There is only one numerical symbol on the plate. In the Journal of the Andhra Historical Research Society, VI (17 ff., line 41), it has been deciphered as 49. It looks like a ligature of the symbol for 40 and that for 8; but as far as I know, there was no method known in ancient India by which a number like 48 could be expressed by one numerical symbol only. The symbol possibly signifies 40 (or 70 ?).

² My paper on the Viṣṇukuṇḍin chronology was originally published in *Ind. Hist. Quart.*, IX, pp. 957-68.

The first known king of the dynasty is, as we have seen, Vikramahendra. Though he has been given no royal title in the Polamuru grant of his grandson Mādhavavarman I, his epithets *viṣṇukondinām* = *appratihata-sāsana* and *sva-pratāp-opanatasāmanta-manujapati-maṇḍala* seem to prove that he was a king and had some feudatories under him. His son Govindavarman Vikramāśraya has been called Mahārāja in the Ipur plates (set I) of his son Mādhavavarman I.

Mādhavavarman I Janāśraya, the greatest of the Viṣṇukundin kings, appears to have at least three sons, viz., Devavarman, Maṇcaṇṇa-bhāṭṭāraka,¹ and Vikramendravarman I (born of a Vākāṭa, i.e. Vākāṭaka princess). Of these we know almost nothing about Maṇcaṇṇa. Of the other two, viz., Devavarman and Vikramendravarman I, it is known with certainty that their sons became kings. We have the Ipur plates (set II) of Devavarman's son Mādhavavarman II and the Ramatirtham plates of Vikramendravarman I's son Indravarman. Should we then suppose that after the death of Mādhavavarman I the Viṣṇukundin kingdom was split up into two divisions, ruled separately by his two sons, Devavarman and Vikramendravarman I ? It however seems to me risky to suggest division of kingdom, whenever we find two sons of a king or their descendants ruling. It may not be unreasonable to think that there was no such division of kingdom after the death of Mādhavavarman I.

Mādhavavarman I possibly died at a very old age. The date of the Polamuru grant of this king seems to be year 40 or, if K. V. Lakshmana Rao's reading is correct, year 48. It seems, therefore, not impossible that the elder children of Mādhavavarman I died

¹ Maṇcaṇṇa as a personal name is known to have been used in the Kannarese country in the 12th century A.D. Maṇcaṇṇa was the name of a minister of Bijjala or Vijjana, the Kalacurya king of Kalyāṇa (1145-1167 A.D.). This minister was a rival of the king's other minister Basava (Brāhmaṇa), the famous founder of the Viraśaiva or Lūṇgāyat sect (J. B. B. R. A. S., VIII, pp. 78, 88, 123, and Bomb. Gaz., I, Pt. II, p. 479). Among minor instances we may take Maṇcaṇṇa a Brahman mentioned as receiving some gifts of land in an inscription of the Yādava king Singhana (1210-1247 A. D.) dated in Śaka sam 1173 (C. P. No. 4 of 1925-26).

before their father's death. In view of the fact that Devavarman, in the Ipur plates (set II) of his son Mādhavavarman II, has the only epithet *kṣatriy-āvāskanda-pravarittī-āpratimavikhyāta-parākrama*, which can by no means suggest his accession to the throne, it appears that this son of Mādhavavarman I did not rule, but predeceased his father. Now we are to determine whether Mādhavavarman I was succeeded by his son Vikramendravarman I or by his grandson Mādhavavarman II.

According to the Ipur plates (set I), Mādhavavarman I granted the village of Bilembali in the Guddādi-viṣaya to Agniśarman, a Brabman of the Vatsa gotra. In the Ipur plates (set II), we notice the grant of a village—the name of which seems to me to be Murotukaliki—by Mādhavavarman II to two Brahmans named Agniśarman and Indraśarman. It is not impossible that Agniśarman of the first set is identical with his namesake who was one of the two recipients of the second set of the Ipur plates. In view of the above fact and also the fact that Devavarman, who seems to have predeceased his father, was possibly an elder brother of Vikramendravarman I, Mādhavavarman II appears to have succeeded his grandfather on the throne. The date of his Ipur plates (set II) has been read by Hultzsch as [40] 7, but he says : “The first figure of the year in the date portion is injured and uncertain” (Ep. Ind., XVII 338). The figure in question, however, seems to be 10 and, consequently, the date may be read as year 17.

Mādhavavarman II was possibly succeeded by his uncle Vikramendravarman I who appears to have been considerably aged at the time of his accession. We have as yet no copper-plate grant issued by this king. The duration of his rule cannot be determined. But if we grant a reign-period of about 25 years to each of the Viṣṇukundin kings, a consideration of the regnal dates of the known kings of the family, seems to suggest not a very long reign-period of this king. “His reign was probably short” (Dubreuil, Anc. Hist. Dec., 91).

The succession from Vikramendravarman I to Vikramendravarman II appears to be regularly from father to son. All these kings have royal titles in the inscriptions. We, however, cannot be definite as regards the number of Viṣṇukuṇḍin kings that ruled before Vikramahendra and after Vikramendravarman II.

We have now to consider the time of the Viṣṇukuṇḍin kings. Fortunately for us, the date of Mādhavavarman I can be determined with a certain degree of precision.

The Polamuru plates of Madhavavarman I record the grant of the village of Pulobūru in the Guddavādi viṣaya by the king in his 40th (or 48th) year as an *agrahāra* to Śivaśarman, a scholar of the Taittiriya school belonging to the Gautama gotra, resident of Kunṛūra in Karmarāṣṭra, son of Dāmaśarman and grandson of Rudraśarman. Next, we are to notice the contents of the Polamuru plates of the Eastern Cālukya king Jayasimha I (Ep. Ind., XIX. 254 ff.), who began to rule from c. 633 A.D. These plates record the gift of the village of Pulobūmra in the Guddavādi-viṣaya in the 5th year (15th year, according to *An. Rep. S. Ind. Ep.*, 1914, p. 10) of the king's reign to Rudraśarman, a scholar of the Taittiriya school belonging to the Gautama gotra, resident of Asanapura-sthāna, son of Śivaśarman and grandson of Dāmaśarman. There can be no doubt that Pulobūru of the former inscription is identical with the Pulo-būmra of the latter, and that the village is to be identified with the modern Polainuru (the find-spot of both the inscriptions) near the Anaparti Railway Station in the East Godavari District. There can also be no doubt that Śivaśarman (son of Dāmaśarman), the recipient of the grant of Mādhavavarman I, was the father of Rudraśarman (son of Śivaśarman and grandson of Dāmaśarman), the recipient of the grant of Jayasimha I. In the latter grant, Rudraśarman is expressly called *pūrv-āgrahārikā*, "the former owner of the *agrahāra*." Now, how many years intervened between the date of the first grant and that of the second, that is to say, between the

40th (or 48th) year of Mādhavavarman I and the 5th year of Jayasimha I ?

In considering this question, we are to note the following points. *Agrahāras*¹ were generally granted to Brahmans when they returned from the *gurukula* after finishing studies, in order to help them in settling themselves as *gr̄hasthas*. It may therefore be conjectured that Śivaśarman received Polamuru at about the age of 25 or 30,² when king Mādhavavarman was in the 40th (48th according to some) year of his reign. The king thus appears to have been old at the time of granting this *agrahāra* to the Brāhmaṇ youth. Śivaśarman, however, certainly died before the date of the grant of Jayasimha I. The epithet *pūrv-āgrahārika* applied to the name of his son in Jayasimha I's grant, possibly goes to show that Rudraśarman, as successor of his father, enjoyed the *agrahāra* for some time before the 5th year of Jayasimha I, i.e. before c. 637 A.D. The most interesting point in this connection, however, is that Rudraśarman in Jayasimha I's grant is called "resident of the town of Asanapura." He is expected to have resided at Kunḍūra in Karmarāṣṭra, the original place of his father, or at Polamuru, the *agrahāra* granted to his father by king Mādhavavarman I. When we remember this change in residence and when we further see that Jayasimha I, at the time of the execution of the Polamuru grant, was stationed in a camp, *vijaya-skandhāvāra*, it appears that in the early years of his reign, Jayasimha I led an

¹ *Agrahāra* means *gurukulād* = *āvṛtta*—*brahmacāriṇe* *deyam* *kṣetrādi*. See Tārānātha's *Vācaspatya*, s. v.

² According to Manu (III. 1-2), a Brahmacārin should study the Vedas (three Vedas, wo Vedas or one Veda) in the *gurugṝha* for thirty-six years or for half or one-fourth of that period, and should then enter the *gr̄hasthāśrama*. The same authority however also says (IX. 94) that a man of thirty years of age should marry a girl of twelve and a man of twenty-four a girl of eight. Kullūka Bhaṭṭa on this verse has: *etac=ca yogya-kāla-pradarśana-param*, *na tu niyamārtham*; *prāyeṇ=aītāratā kālena ḡhitavedo bhavati*, *tribhāgarayaskā ca hanyā roḍhur=yuno yogy=eti*; *gr̄hitavedas=c=opahurvāṇako gr̄hasthāśramam prati na tilambet=eti satrara=ity=asy=ārthab*. A story of the *Chhāndogya Upaniṣad*, (VI.1-2) says that Śvetaketu went to his guru at the age of twelve and returned home after finishing all the Vedas at the age of twenty-four.

expedition to the Viṣṇukuṇḍin country and encamped in the Guddavādi-visaya, somewhere near Polamuru, that constant fights were going on between the forces of the Cālukyas and those of the Viṣṇukuṇḍins, and that Rudraśarman, the *āgrahārika* of Polamuru, had to flee to the town of Asanapura (near Draksharama in the West Godavari District) in this troubled period, but came back after some time, when Jayasimha I was temporarily or permanently master of the whole of the Guddavādi-visaya or a considerable part of it.¹ Considering all these points, I think it not impossible that the difference between the time of the two Polamuru grants was about half a century.²

¹ The mastery of two different powers over two different parts of one district does not appear to be impossible. The Candra (*cf.* the Rampal grant of Śrīcandra, Inserr. Beng., III, No. 1) and the Varman (*cf.* Belava grant of Bhojavarmān *ibid.*, No. 3), kings of South-Eastern Bengal granted lands in the Puṇḍrabhukti, which has been presumably taken to be the same as the famous Pundravardhanabhukti. But it seems impossible that the Candras and Varmans were ever master of the Koṭivarṣa or Dinajpur region of the Pundravardhanabhukti. I, therefore, think that in the age of the later Pālas, the *bhukti* of Pundravardhana was divided between the kings of Gauḍa and the kings of South-Eastern Bengal. The slight change in the name of the *bhukti* probably goes to confirm this suggestion.

² The difference between the time of the execution of these two grants may possibly be greater and consequently, Mādhavavarman I might have ascended the Viṣṇukuṇḍin throne a little earlier. But I do not want to go far beyond the estimate of Mr. Subba Rao who suggests that the period may be about 40 years. This suggestion however, seems to be invalidated by another suggestion of his. He takes Hastikōśa and Virakośa, who were the executors of the grant of Jayasimha I, as personal names. We must notice, here that the executors of the grant of Mādhavavarman I were also Hastikōśa and Virakośa. If we think that these two persons were officers in charge of the Guddavādi visaya, under Mādhavavarman I and also under Jayasimha I, the intervening period between the grants of the two kings should possibly be shorter than 40 years. We must however note in this connection that there were a Hastikōśa and a Virakośa in the Tālupaka visaya, who were ordered by king Prthivimūla of the Godavari plates (J. B. B. R. A. S., XVI 144 ff.) to protect an *agrahāra* in the same visaya. Fleet, the editor of the Godavari plates, may be right when he says, "I do not know of any other mention of these two officials, who evidently kept the purses and made disbursements on account of respectively the establishment of elephants and heroes who were to be rewarded for deeds of valour." The epithet *mahāmātra-yodha* applied to Hastikōśa-Virakośa in the Polamuru grant of Mādhavavarman I, seems to show that they were Mahāmātra of the Military Department. It may also be that the epithet *mahāmātra* goes with Hastikōśa and *yodha* with Virakośa. The word Mahāmātra, according to Medini, means *hastipakādhipa* (the head of the elephant-drivers or riders; *cf.* vulgo. *māhut*). The word *yodha* generally means "a soldier." Hastikōśa and Virakośa have been taken to be "officers in command of the elephant force and the infantry" in *An. Rep. S. Ind. Ep.*, 1914, p. 85.

Then, the 40th (or 48th) year of Mādhavavarman I may be c. 637 A.D. (date of Jayasimha's grant) minus 50, that is, c. 587 A.D. Mādhavavarman I therefore seems to have ruled from about the end of the first half to about the end of the second half of the sixth century.

In connection with the period of Mādhavavarman I, we must also notice the passage of the Polamuru inscription, which records a grant made by the king when he was crossing the river Godāvarī with a view to conquering the eastern region and another passage which refers to a lunar eclipse in the *Phālguni-Paurṇamāsi* (*i.e.* the full-moon day of the month of Phālguna) as the occasion of the grant. The connection of Mādhavavarman I with the "eastern region" seems to indicate that he was possibly the *andhrādhipati* (lord of the Andhra country) who was defeated by the Maukhari king Isānavarman according to the Haraha inscription of Vikrama Sam 611, *i.e.* A.D. 544 (*vide infra*). This synchronism also places Mādhavavarman I Viṣṇukundin in the middle of the 6th century A.D.

We have just noticed that the village of Pulobūru was granted on the occasion of a lunar eclipse in the Phālguni-Pūrṇimā. In the second half of the 6th century, lunar eclipses occurred in the above *tithi* on the following dates :

- (1) 11th February, 556 A.D.
- (2) 2nd March, 565 ,,
- (3) 21st February, 574 ,,
- (4) 11th February, 575 ,,
- (5) 21st February, 593 ,,
- (6) 10th February, 594 ,,

Of these dates, years 593 and 594 may be tacitly rejected as they appear to be too late. But it is impossible at the present state of our knowledge to ascertain on which of the other four dates was the grant issued. If, however, we presume that the date of the Polamuru grant falls on any of these four dates and if

further the reading of the date be accepted as 40, Mādhavarman I Viṣṇukuṇḍin certainly began to reign sometime between 516 and 535 A.D.¹ The approximate chronology of the Viṣṇukuṇḍin kings, then, may be taken as follows :

1. Rise of the Viṣṇukuṇḍin power in the 5th century A.D.²
2. Vikramahendra (Vikramendra I?) *circa* 500—520 A.D.
3. Govindavarman , 520—535 ,
4. Mādhavarman I , 535—585 ,
5. Mādhavarman II , 585—615 ,
6. Vikramendravarman I (II?) , 615—625 ,
7. Indra-[bhaṭṭāraka]-varman , 625—655 ,
8. Vikramendravarman II (III?) , 655—670³ ,
9. End of the dynasty possibly somewhere in the 8th century A.D.

The period assigned to Indravarman, *viz.*, *circa* 625—655 A.D., is, I think, supported by some views expressed by Fleet in J.B.B.R.A.S., XVI, p. 116. While editing the Godavari

¹ Mādhavarman I married a Vākāṭaka princess and his descendants are represented as boasting of the Vākāṭaka connection. His date does not, therefore, seem to be far removed from the glorious age of the Vākāṭakas, *viz.*, the 5th century A.D. Smith places this relative of the Vākāṭakas in about 500 A.D. (J.R.A.S., 1914, p. 139). It is true that Mādhavarman I is to be placed between the 5th century, the glorious period of the Vākāṭakas, and the 7th century, the age of Jayasimha I Eastern Cālukya. It therefore seems certain that the reign of Mādhavarman I began in the first half of the 5th century A.D.

² It may be tempting to connect the Viṣṇukuṇḍins with the Viphukaṇa-Cuṭukulānanda Sātakarpi kings, whose inscriptions (see Lüders' List of Brahmi Ins., Nos. 1021, 1186 and 1196) and coins (Rapson, B. M. Catalogue of Andhra Coins, p. 59) have been discovered. Viphukaṇa may possibly be taken to be the same as Viṣṇukuṇḍa, *i.e.*, Viṣṇukuṇḍa which gives the name of the family whereto our kings belonged. But a serious objection that can be raised in this connection is that the Cuṭukulānanda Sātakarpi who claimed to have belonged to the Mānavya-gotra used metronymics, like Hāritiputra, along with their names like the Satavāhana-Sātakarpi. The practice of using such metronymics and also the gotra name is found, though in a modified way, in the inscriptions of the Kadambas and the Cālukyas; but it is conspicuous by its absence in the inscriptions of the Viṣṇukuṇḍins. There is therefore no evidence at present to connect the Viṣṇukuṇḍins with the ancient Sātakarpi kings.

³ According to Kielhorn, the Chikkulla plates (Ep. Ind., IV, 193) should be palaeographically assigned to the 7th or the 8th century A.D.

plates of Pr̥thivīmūla, Fleet said : “The Adhirāja¹ Indra at whose request the grant was made, is mentioned as having fought in company with other chiefs who united to overthrow a certain Indrabhaṭṭāraka. Taking into consideration the locality (* the Godavari District) from which the grant comes, and its approximate period as indicated by the palæographical standard of the characters and the use of numerical symbols in the date, there can be no doubt that Indrabhaṭṭāraka is the Eastern Chalukya of that name, the younger brother of Jayasimha I.” According to many of the Eastern Cālukya grants, however, this Indrabhaṭṭāraka did not reign at all, though some grants assign a reign period of only 7 days to him. It is, therefore, highly improbable that Indrabhaṭṭāraka of the Godavari grant of Pr̥thivīmūla was identical with the Eastern Cālukya of that name. Prof. Dubreuil is almost certainly right in identifying the Indrabhaṭṭāraka of the Godavari plates with the Viṣṇukundin king Indravarman or Indrabhaṭṭārakavarman.

Fleet further remarked : “And the figurative expression that the Adhirāja Indra mounted upon the elephant *supratīka* of the north-east quarter, overthrew the elephant *kumuda* of the south-east or southern quarter, shows that this attack upon the Eastern Chalukyas was made from the north-east of their kingdom of Veṅgī.” The inscription of the Gaṅga king Indravarman referred to by Fleet are dated in the 128th and 146th year of the Gaṅga era, which “seems to have commenced in A.D. 496” (Ep. Ind., XX, App., p. 201, n. 1 ; Ind. Ant., LXI, pp. 237 f.). The above Gaṅga inscriptions were, therefore, issued in *circa* 624 and 642 A.D. Consequently, the Gaṅga king Indravarman was a contemporary of the Viṣṇukundin Indra- or Indrabhaṭṭāraka-varman (*circa* 625-655 A.D.).

¹ The word *adhirāja*, according to the Mahābhārata, means the same thing as *samrāṭ* and *cakravartin* (Śabdakalpadruma, s.v.). In later inscriptions however it is known to have denoted subordinate rulers. The Dhod inscription of Cāhamāna Pṛthivideva mentions his feudatory *adhirāja* Kumārapāla (Bhandarkar's List, No. 341).

As regards the possession of Vengī by the Eastern Cālukyas in the middle of the seventh century A.D., it may be said that there is no conclusive proof of that supposition. From the Aihole inscription (Ep. Ind., VI. 4 ff.), we learn that Pulakesin II reduced the strong fortress of Piṣṭapura, which is the modern Pittapuram (Pithapuram) in the East Godavari District, near the sea-coast, about 80 miles to the north-east of Peddavegī; and he caused the leader of the Pallavas to shelter himself behind the ramparts of Kāñcī, modern Conjeeverain about 40 miles to the south-west of Madras. Fleet says “Probably during the campaign which included the conquest of Pittapuram and which must have taken place at this time (*A.D. 616 or 617), the Vengī country was made a part of the Chalukya dominions; and the reference to the Pallavas immediately after the mention of Piṣṭapura, has been understood as indicating that it was from their possession that Vengī was taken” (Ind. Ant., XX. 94f.). After the publication of the Viṣṇukuṇḍin copper-plate grants, however, the theory of the Pallava occupation of Vengī in the beginning of the 7th century A.D. may be tacitly given up. Since Lendulūra, for some time the residence (*vāsaka*) of a Viṣṇukundin king, has been undisputedly identified with Lendalūru, a village on the ruins of the ancient city of Vengī, 5 miles north-east of Ellore in the West Godavari District, it is certain that the Vengī country passed from the hands of the Śālaṅkāyanas to the possession of the Viṣṇukundins.

It is interesting to notice a passage in the Aihole inscription dated in 634-35 A.D. (Ep. Ind., VI, *loc. cit.*) which describes Pulakesin II's southern campaign. Verse 28 of that famous inscription speaks of a piece of water, which appears to contain some islands that were occupied by Pulakesin's forces. This piece of water has been called the Kaunāla water or the water (or lake) of Kunāla. The position of this Kunāla is indicated by the sequence of events recorded in the inscription. Verse 26 tells us that Pulakesin II subdued the Kaliṅgas and the Kośalas and then, according to the following verse, took the

fortress of Piṣṭapura. After that is recorded the occupation of Kunāla (verse 28); this again is followed, in the next verse, by Pulakeśin's victory over the Pallava king near Kāñcīpura. Verse 29 describes the Cālukya king as crossing the river Kāverī, after which is described his contact with the Colas, Keralas and the Pāṇḍyas (verse 31). Kielhorn seems therefore perfectly reasonable when he says (*ibid.*, pp. 2-3) : "Pulakeśin's march of conquest therefore is from the north to the south, along the east coast of Southern India; and the localities mentioned follow each other in regular succession from the north to the south. This in my opinion shows that 'the water of Kunāla' can only be the well-known Kolleru lake, which is south of Piṣṭāpuram, between the rivers Godāvarī and Kṛshnā. To that lake the description of 'the water of Kunāla' given in the poem would be applicable even at the present day ; and we know from the inscriptions that the lake contained at least one fortified island, which more than once has been the object of attack." Since the ruins of Veṅgī and Lēṇḍalūru lie in the vicinity of the Kolleru lake there can now hardly be any doubt that the 'water of Kunāla' (*i. e.*, the Kolleru or Kollair lake) was, at the time of Pulakeśin II's invasion, in the possession of the Viṣṇukuṇḍins and that the battle of Kunāla was fought between the Cālukya king and a Viṣṇukuṇḍin monarch who was most probably either Mādhavavarman II or Vikramendravarman I, both of whom were weak successors of the great Mādhavavarman I.

The theory now generally accepted is that Veṅgī was conquered by Pulakeśin II, during his campaign in the south-eastern region. There is, as I have already said, no conclusive evidence in support of this theory. In the records of the early Eastern Cālukya kings there is no reference to the occupation of Veṅgī at all. The first use of the name of Veṅgī is in the inscriptions of the time of Amma I (918-925 A.D.) which call Vijayāditya II (*c.* 794-842 A.D.) *veṅg-iśa*, and in the inscriptions of the time of Cālukya Bhīma II (934-945), which contain the first explicit statement that the territory over which Kubja-Viṣṇuvardhana

and his successors ruled was the Ven̄gi country (Ind. Ant., XX. 94). Both Amma I and Cālukya Bhīma II reigned in the tenth century A.D. ; the evidence of their inscriptions as to the Cālukya occupation of Ven̄gi in the 7th century can, therefore, be reasonably doubted. The fact seems to be that the Viṣṇukūṇḍins of Ven̄gi, from the time of the Cālukya possession of Piṣṭapura, became weaker and weaker, and their country was gradually annexed to the waxing empire of the Eastern Cālukyas. The formal annexation which took place possibly after the extinction of the Viṣṇukūṇḍins (somewhere in the 8th cent. A.D.?) seems to have been completed long before the tenth century A.D., *i.e.*, the time of Amma I and Cālukya Bhīma II, when the Eastern Cālukyas claimed that they were master of the Ven̄gi country from the very beginning of their history. There appears therefore no strong grounds against our theory that the Viṣṇukūṇḍins, though shorn of their past glory, were ruling at Ven̄gi, contemporaneously with the Eastern Cālukyas, who were ruling first probably from Piṣṭapura,¹ next from Ven̄gi² and then from Rājamahendri.³

¹ It is to be noted that the Timmapuram grant of Viṣṇuvardhana I Viṣṇamasiddhi was issued from the *vāsaka* (literally, *residence*) of Piṣṭapura (modern Piṭhpuram in the Godavari Dist.). We have suggested above that possibly the term *vāsaka*, like the term *skandhāvāra* signify temporary (or sometimes secondary) capital of a king. It is well-known that Pulakeśin II crushed the power of the king of Piṣṭapura (*pīṭāra piṣṭapuraṃ yena*) and established his brother Kubja-Viṣṇuvardhana on the throne of that place. At the time of Viṣṇuvardhana therefore Piṣṭapura could reasonably be looked upon as his *vāsaka* or *skandhāvāra* of this king.

² The Ven̄giā (Lord of Ven̄gi) antagonists of the Rāṣṭrakūṭas appear to be the Eastern Cālukya kings (see also Bomb. Gaz. I, Pt. II, p. 199). The earliest reference to a king of Ven̄gi in the Rāṣṭrakūṭa records appears to be that in an inscription dated 770 A.D. (Ep. Ind., VI, 209). The Eastern Cālukyas therefore seem to have occupied Ven̄gi before the 8th century A.D. possibly about the second half of the 8th century, the time of Vijayāditya II and his father.

³ According to Sewell (Ind. Ant., XX, p. 94, note 6) there are two traditions regarding the origin of the name of Rājamahendri (modern Rajahmundry) or Rājamahendrapura. The first of these traditions connects the name with Mahendradeva, son of Gautamadeva, a supposed early king of Orissa, while the second connects it with a Cālukya king named "Vijayāditya Mahendra." This Vijayāditya Mahendra is apparently the Eastern Cālukya king Amma II (A.D. 945-970) who had the epithet Rājamahendra and the surname

We have to notice two other points before we conclude this section. Smith in his Early History of India, 4th ed., p. 441, says : " In the east he (scil. Pulakesin II) made himself master of Ven̄gi, between the Krishnā and the Godāvarī, and established his brother Kubja Vishnuvardhana there as Viceroy in A.D. 611, with his capital at the stronghold of Pishtapura, now Pithapuram in the Godāvarī District." Smith, here, professes to rely on the Kopparam plates of Pulakesin II, edited by Lakshmana Rao in Ann. Bhand. Or. Res. Inst., IV. 43 ff. These plates, which are full of textual mistakes, seem to record the grant of some lands in Karmarāṣṭra (northern part of Nellore and southern part of Guntur) by one Pr̄thivī-Duvarāja in the presence of Pulakesin II. The grant is dated in the *pravardhamāna-vijaya-rājya-saṃvatsara* 21. Hultzsch while editing these plates in Ep. Ind., XVIII, has shown that the inscription belongs to the 21st regnal year of Pulakesin II, i.e., to about A.D. 629-30 and that Pr̄thivī-Duvarāja is to be identified with his younger brother Kubja-Viṣṇuvardhana, who is styled Pr̄thivīvallabha-Viṣṇuvardhana-Yuvarāja in the Satara grant (Ind. Ant., XIX. 309). The word *duvarāja* is a Dravidian *tadbhava* of Sanskrit *yuvarāja*. (Cf. *Akalaṅkat-tuvarāyar* = Sanskrit *Akalaṅka-yuvarāja* in the Amber inscr., Ep. Ind., IV. 180, and *Tuvarāśan* = *yuvarāja* in the Kasukudi inscr., S.I.I., II, No. 73).¹ Lakshmana Rao, however, thinks that Duvarāja of this inscription is to be identified with Dhruvarāja of the Goa plates, and that the year 21 of his reign falls in A.D. 611.

Vijayāditya VI (*ibid.*, p. 270). Fleet (*ibid.*, pp. 93-4), however, takes the founder of, or the first Eastern Cālukya king at, Rājamahendrapuram to be Amma I (918-925 A.D.), who no doubt had the epithet Rājamahendra, but whose surname was Viṣṇuvardhana (VI) and not Vijayāditya.

¹ It is also interesting to note in this connection the name of the third king of the Cālukya line of Kalyāṇi. In many of the inscriptions it is given as Daśavarman, but it is also written (e.g., in the Kauthem grant, *Ind. Ant.*, XVI, p. 15) as Yaśovarman. Fleet while noticing the point remarked, "The reason for the variation there is not apparent" (Bomb. Gaz. I, Pt. II, p. 484). It seems to me that Daśavarman is an emended form of Daśo-varman which is but the same as Yaśovarman.

But even if we accept 611 A.D. to be the date when Pulakesin II invaded Karmarāṣṭra and defeated the Viṣṇukundin king, does it follow that Pulakesin II conquered the whole of the kingdom of the Viṣṇukuṇḍins ? Does the defeat of a king always lead to the loss of his entire territory ? Pulakesin II is known to have defeated the Pallava king, penetrated through the whole of the Pallava territory and crossed the Kāverī ; but was the Pallava power weakened ? Again, in 642 A.D., the Pallava king Narasimhavarman defeated and killed Pulakesin II and took Vātāpi, the Cālukya capital ; but did the Cālukya power permanently collapse ? Did not the power of the Cālukyas exist even during the period of the Rāṣtrakūṭa usurpation ?¹

Then again according to Bilhaṇa (*Vikramāṅkadevacarita*, Intro., p. 44 ; Ind. Ant., V. 323) the Cālukya emperor Vikramāditya VI of Kalyāṇi marched on and occupied Kāñcī, the capital of the Colas (*i.e.*, the Eastern Cālukyas), and amused himself there for sometime before returning to his capital. “ It is doubtless this campaign that led to there being so many inscriptions, referring themselves to the reign of Vikramāditya VI, at Drākshārāma and other places in the Telugu country, outside the ordinary limits of the Western Chālukya kingdom.” (Bomb. Gaz., I, Pt. II, p. 453, note 1.). But does this fact prove that Kāñcī and the Telugu country were permanently occupied by the Cālukyas of KalyāṇI ? Temporary success like this is possibly also shown in the grant of two villages near Talakāḍ the Gaṅga capital in Mysore by the Kadamba King Ravivarman (Ep. Ind., VIII, p. 146 ; Sewell, Hist. Ins. South Ind., s. v. c. A.D. 500 ; Moraes, *Kadambakula*, p. 48.)

To commemorate even the temporary occupation of part of a country, Indian kings appear to have used to grant, there, lands to Brahmans (see *Manusāṃhitā*, VII, verses 201-2), and generally, this sort of grants was acknowledged by other kings.

¹ *Vide* the Cālukya genealogy as given, e.g., in the Kauthem grant (Ind. Ant., XVI, p. 15). See also Bomb. Gaz., I, Pt. II, pp. 380 ff.

It may, therefore, be not altogether impossible that Pulakesin II penetrated as far as the Karmarāṣṭra, where the reigning Viṣṇukuṇḍin king was defeated, and the Cālukya king felt himself justified in granting lands in the district of which he thought himself to be the master for the time being at least.¹

If these suggestions be accepted, there is then no difficulty as regards the discovery of Cālukya grants, giving lands in places which were originally under the Viṣṇukuṇḍins. We however do not argue that all the Eastern Cālukya kings who granted lands in the country once occupied by the Viṣṇukuṇḍins were temporary possessors of the land. It seems reasonable to believe that the Viṣṇukuṇḍin country gradually, not long after the time of Pulakesin II, merged into the Eastern Cālukya empire and gradually the Viṣṇukuṇḍins lost all their territories excepting the small district round their capital city of Veṅgi. The existence of Viṣṇukuṇḍin rule at Veṅgi in the 7th century may be compared with that of the Kadamba rule at Vaijayantī even in the glorious age of the early Cālukyas of Bādāmi.

The next point is regarding the find-spot of the Rama-tirtham plates of the Viṣṇukuṇḍin king Indravarman. The plates were found at a place near Vizianagram in the Vizagapatam District of the Madras Presidency. They record the grant of a village in the Plakirāṣṭra, which was evidently situated in the Vizagapatam District (Anc. Hist., Dec., p. 91). On the evidence of the find of these plates, it may be suggested that the Vizianagram region was included in the Viṣṇukuṇḍin kingdom, that is to say, the Viṣṇukuṇḍin boundary extended as far

¹ It is also possible that at the time of Pulakesin II's expedition, the Karmarāṣṭra was occupied not by the Viṣṇukuṇḍins (but by a branch of the Pallavas?). In A.D. 639 the celebrated Chinese pilgrim Yuan Chwang visited the kingdom of An-to-lo (i.e., Andhra), which was a small district only 3,000 *li* (about 4 500 miles) in circuit. The capital was at Ping-ki-lo, which seems to be a mistake for Ping-ki-pu-lo, i.e., Venkipura. The southern part of the Andhra-country formed a separate kingdom called To-na-kie-tse-kia (Dhānya-kaṭaka ?) or Ta-An-to-lo (Mahāudhra) with its capital possibly at Bezwada, where the pilgrim resided for 'many months.' At the time of Yuan Chwang's visit the Eastern Cālukyas possibly ruled the kingdom of Kie-ling-kia (i.e., Kaliṅga) which was 5,000 *li* in circuit. See Cunningham, *Anc. Geog. Ind.*, ed. 1924, pp. 590 ff., 603 ff., 647 and 786 f.

as the borders of the Ganjam District.¹ In view of the fact that there was the royal house of Piṣṭapura, the houses of the Varmans of Kaliṅga and also of the Gaṅgas whose era probably started from 496 A.D., permanent Viṣṇukuṇḍin occupation of the Vizianagram region seems to me highly improbable. The truth might have been that in retaliation to the raids of Pulakeśin II and Jayasiṁha I, Indravarman Viṣṇukuṇḍin invaded the Cālukya country and penetrated as far as the Pṛakirāṣṭra, where he made grants of land, as did Pulakeśin II in the Karmarāṣṭra, Jayasiṁha I in Guddavādi and Gudrahāra, and Vikramāditya VI in the Telugu country. The Pṛakirāṣṭra or Vizagapatam District seems to have been under the Eastern Cālukyas as early as the 18th year of Viṣṇuvardhana I. His Chipurupalle plates (Ind. Ant., XX, p. 15) dated in that year, were found in the Vizagapatam District. They evidently refer to the Pṛakiviṣaya, doubtfully read as Pūkiviṣaya by Burnell and Fleet. This Pṛakiviṣaya is evidently the same as the Pṛakirāṣṭra of the Ramatirtham plates of Indravarman.

We have seen that the Godavari grant of Pr̥thivīmūla refers to a coalition of kings against Indrabhaṭṭārakavarman, who has been identified with the Viṣṇukuṇḍin king of that name. It seems to me that when Indravarman Viṣṇukuṇḍin defeated the Eastern Cālukya forces and penetrated far into their country, Jayasiṁha I, who seems to have been the Eastern Cālukya contemporary of Indravarman, formed an alliance with several other kings, one of whom was Adhirāja Indra, identified by Fleet with the Gaṅga king Indravarman. The combined forces of these allied kings possibly defeated the Viṣṇukuṇḍin king and compelled him to return and shelter himself behind the ramparts of his capital, the city of Veṅgī.

¹ Kielhorn entered the Chikkulla grant of Viṣṇukuṇḍin Vikramendravarman II in his List of North Indian Inscriptions (Ep. Ind., V, App., No. 637). Following Kielhorn, Prof. D. R. Bhandarkar has also entered the Viṣṇukuṇḍin inscriptions in his List of N. Ind. Inscr. (Ep. Ind., XX-I, App., Nos. 1117 and 2096-99). The Śālatkāyana and Viṣṇukuṇḍin records must properly be entered into a List of South Indian Inscriptions, as these were local dynasties ruling over the Andhra country in the South.

3. *Vikramahendra (Vikramendra I?) and Govindavarman
Vikramāśraya.*

As we have already noticed, king Vikramahendra is mentioned only in the Polamuru grant of his grandson Mādhavarman I. He is there described as a devotee of Lord Śrīparvata-svāmin and is said to have subdued the feudatory chiefs by his own valour. The Lord Śrīparvata-svāmī is referred to in all the inscriptions of the Viṣṇukuṇḍin family and may, therefore, be taken to have been the family-deity of the Viṣṇukuṇḍins. Śrīparvata may be identified with Śrīsaila in the Kurnool District of the Madras Presidency.¹ The original home of the Viṣṇukuṇḍin family may, therefore, be supposed to have lain not very far from the Śrīsaila. Kielhorn (Ep. Ind., IV, 193) suggested a connection of the name of the family with that of the hill-fort and town of Vinukonda in the Kistna District, about 60 miles east of the Śrīsaila and 50 miles south of the Krishna river. Vinukonda, according to Kielhorn, was possibly the early home of the Viṣṇukuṇḍins.

The son and successor of Vikramahendra was Govindavarman. His surname Vikramāśraya and the epithet *aneka-samara-samghatā-vijayin* possibly show that he was a king of considerable importance. He is said to have been obeyed by all the feudatory chiefs.

4. *Mādhavarman I Janāśraya.*

Mādhavarman I Janāśraya appears to have been the greatest of the Viṣṇukuṇḍin kings. The performance of 11

¹ Excepting the grant of Mādhavarman II, which applies the epithet *bhagac-chriparvatasvāmi-pādānuḍhyāta* to the name of the issuer himself, all other Viṣṇukuṇḍin records apply the epithet to the first king (a predecessor of the issuer) with whose name the genealogical part of the inscriptions begins. In the records therefore king Vikramendra-varman I and his son and grandson are not themselves called "devotee of Lord Śrīparvata-svāmin." Many Western Calukya grants have been found in the Kurnool Dist., which region appears to have passed to the Western Calukyas before the middle of the 7th century.

aśvamedhas, 1,000 *agniṣṭomas* and some other rites including the *Hiranyagarbha* prove that he was a prince of power and resources. In very early times the *aśvamedha* was evidently performed by kings desirous of offspring (see Apte, *Sanskrit-English Dictionary*, s.v. *aśva*). According to the *Rāmāyaṇa* (I, viii, 2), king Daśaratha performed this sacrifice for progeny (*sut-ārthī vājimedhena kim=artham na yajāmy=aham*). Kings are also known to have performed *aśvamedha* for purifying themselves from sin. According to Viṣṇu, *aśvamedhena śudhyanti mahā-pātakinas=tv=ime* (*Śabdakalpadruma-pariśiṣṭa*, s.v. *aśramedha*). Rāma in the *Rāmāyaṇa* (VII, 84) and Yudhiṣṭhira in the *Mahābhārata* (XIV, iii) are said to have performed the horse-sacrifice with a view to purifying themselves. But as we have noticed above (pp. 14-15), it was performed only by a king who was a conqueror and a king of kings. Keith has rightly pointed out that the *Aśvamedha* "is an old and famous rite, which kings alone can bring to increase their realms" (*Rel. Phil. Ved. Up.*, p. 343). The *Baudh. Śr. Sūt.* (XV, 1) says that a king victorious and of all the land should perform this sacrifice. According to the *Tait. Br.* (III, 8, 9, 4), "he is poured aside who being weak offers the *Aśvamedha*," and again (V, 4, 12, 3), "it is essentially like the fire-offering, an *Utsanna-Yajña*, a sacrifice of great extent and elaboration." See Keith, *Black Yajus*, pp. cxxxii-iv. According to Āpastamba (XX, 1, 1 quoted in the *Śabdakalpadruma-pariśiṣṭa*, Hitabadi Office, Calcutta), *rājā sārvabhaumah aśvamedhena yajeta n=āpy =asārvabhaumah*.¹ A feudatory ruler therefore could not perform the *aśvamedha*.²

¹ In place of *nāpi* there is an alternate reading *api*, which is a later interpolation according to Keith (*Black Yajus*, p. cxxxii), but which means to say that *asārvabhauma* (not master of all the land) kings could also perform the *Aśvamedha*. The word *asārvabhauma* however never means a feudatory chieftain. This reading only shows that in later times kings who were powerful but who did not claim to be ruler of the Earth (i.e., whole or major part of India) did also perform the *Aśvamedha*.

² In a note in *Ind. Cult.*, I, pp. 114-5, it has been suggested that since Mādhabavarma I Viṣṇukundin and Pravarasena I Vākāṭaka have been called *Mahārāja* in their inscriptions, they are to be taken as petty chiefs even though they performed the *Aśvamedha*. In support of this theory Prof. D. R. Bhandarkar says that 'even a feudatory chieftain can

A point of great interest, however, is that Mādhavavarman I claims to have performed as many as ELEVEN *aśvamedhas*, while successful conquerors like Samudragupta and Pusyamitra are known to have performed only one or two *aśvamedhas*. Of course from the description of the sacrifice given in the Rāmāyaṇa and the Mahābhārata, it appears that some aśvamedhic practices of the Vedic age were slightly modified in the epic period ; but it is impossible to think that it became so easy as to be performed by even a king of the feudatory rank. It must be noticed that some Vedic kings are known to have performed a

perform a Horse-sacrifice " (*ib.*, p. 115), and that the Aśvamedha " may or may not be preceded by a *dig-vijaya* " (p. 116). The professor has no doubt that the Vākāṭakas were subordinate chieftains (p. 116). These theories however, are not only against the evidence of the Śruti literature, but go also against the evidence of the inscriptions of these kings. In inscriptions Pravarasena I has been called *samarāt*, which never signifies a subordinate chieftain. Cf. *samarāt (jo) vākāṭakānām mahārāja-śri-pravarasenasya* of the Balaghat plates, *Ep. Ind.*, IX, p. 270, l. 4, n. 4 ; also *C.I. I*, II, p. 235). That Mādhavavarman I was not incapable of a *digvijaya* is proved by a reference to his eastern expedition in the Polamuru grant. Moreover, an essential feature of the Aśvamedha, beside the actual slaying of the horse, is that about the end of the performance, at the bidding of the Adhvaryu " a lute-player (*vīṇā-gāthīn*), a Rājanya, sings to the lute three Gāthās, verses, made by himself which refer to the victories in battle connected with the sacrifice " (Keith, *Relig. Philos. Ved. Upanis.*, p. 344). Further, " As revealed in the later texts the sacrifice is essentially one of princely greatness. The steed for a year roams under guardianship of a hundred princes, a hundred nobles with swords, a hundred sons of heralds and chariooteers bearing quivers and arrows and a hundred sons of attendants and chariooteers bearing staves " (*Sat. Br.*, XIII, 4, 2, 5; *Baudh. Srautasūtra*, XV, I). See Keith, *Black Yajus*, loc. cit. To manage these requirements is simply impossible for a subordinate chief. Moreover, that the progress of the Aśvamedha was sometimes impeded when other kings challenged one's authority to perform the sacrifice, is not only proved from the two cases referred to in *Sat. Br.* (XIII, 5, 4, 21-22), and those in the *Mahābhārata* (XIV, 74-84), but is also proved from an instance recorded in the Udayendiram grant (No. 2), *Ind. Ant.*, VIII, p. 273 Udayacandra, general of Nandivarman-Pallavamalla, is there reported to have defeated the Niṣāda king, Prthivivyāghra who was accompanying the *Aśvamedha-turāṅgama*, i.e., horse let loose in connection with a horse-sacrifice. Quarrels with neighbouring kings in connection with the sacrifices of Pusyamitra are distinctly referred to in the *Mālavākāgnimītra*, Act V. It is stated that Pusyamitra's sacrificial horse was let loose to roam for a year at its own will under the guardianship of his grandson Vasumitra who was attended by a hundred princes and when the horse perchance reached the southern bank of the Sindhu and was captured by the Yavana horsemen, brought it back after defeating the Yavanas. *Mahārājāśhrīrāja* based on *rājātirāja*, etc. of the Scytho-Kusans was, in early times, not very often used in South India. See my note on *Aśvamedha* in *Ind. Cult.*, I, pp. 311 ff.

great number of *aśvamedhas*. Thus Bharata, son of Duṣyanta, according to a *gāthā* quoted in the Satapathabrahmaṇa (XIII, iii, 5.11 ; Weber's edition, p. 994), performed as many as one hundred and thirty-three horse-sacrifices on the banks of the Gaṅgā and the Yamunā (*aṣṭāsaptatim bhaiato dausyantir = yamunām = anu gangāyām vṛtraghne = 'badhnāt pañcapañcāśatam hayān = iti*). According to another *gāthā* (*loc. cit.*, 13), Bharata performed more than a thousand *aśvamedhas* after conquering the whole earth (*paraḥsaḥasrān = īndrāy = aśvamedhān = ya = āharad = vijitya prthirīm sarvām = iti*). The epics however knew of traditions regarding some early kings trying to perform hundred *aśvamedhas*, which would lead the performer to the attainment of the seat of Indra who is therefore represented as trying to prevent the hundredth sacrifice (Apte, *loc. cit.*). May it be that the Vedic *aśvamedha* was less pompous than the epic *aśvamedha* and that *aśvamedhas* performed by South Indian kings were of the Vedic type ? We have seen above (p. 73) that the Deccan performs Vedic rites more fanatically than Northern India. See also my views in *Journ. Ind. Hist.*, XIII, p. 40

Mādhavavarman I married a girl of the Vākāṭaka family of Northern Deccan, and thus made his power secure in that direction.¹ According to V. A. Smith (J.R.A.S., 1914, p. 137) the Vākāṭaka father-in-law of Mādhavavarman I Viṣṇukuṇḍin was king Hariṣena who claims to have conquered the Andhra and the Kaliṅga countries. It is also believed that Mādhavavarman succeeded in getting the possession of the Veṅgī country by virtue of this Vākāṭaka alliance (Sewell, *Hist. Ins. South. Ind.*, s.v. A.D. 500). This suggestion is however untenable in view of the fact that Mādhavavarman I, though he was the greatest king, was not the first king of his dynasty, he being at least preceded by his

1. Dr. D. C. Ganguly writes in *Ind. Hist. Quart.*, VIII, 26 : "Mādhavavarman I was the founder of this dynasty. His mother was a princess of the Vākāṭaka family." According to the Chikkula plates (Ep. Ind., IV, 193), however, the Vākāṭaka princess was the mother of Vikramēndravarman I, son of Mādhavavarman I. Cf. *Viṣṇukuṇḍi-vākāṭa-varṣa-dvay-ālambṛta-jamānaḥ śrī-vikramēndravarmanāḥ* etc. As we have shown, Mādhavavarman I was not the founder or the first king of the Viṣṇukuṇḍin dynasty.

father Govindavarman and grandfather Vikramahendra. The Polamuru grant calls him *daśa-śata-sakala-dharanī-tala-narapati* and credits him with an expedition for the conquest of the eastern region.

It must be noticed in this connection that, in the Haraha inscription dated A.D. 554, the Maukhari king Isānavarman claims victory over an *Andhr-ādhipati*. There can hardly be any doubt that this *Andhr-ādhipati* was a Viṣṇukuṇḍin king. Dr. Raychaudhuri (Pol. Hist. Anc. Ind., 2nd ed., 370) has taken this Andhra king to be Mādhavavarman of the Polamuru plates who according to this grant "crossed the river Godavari with a desire to conquer the eastern region." This identification suits well the chronology we have accepted in these pages. It may not be impossible that the eastern expedition of Mādhavavarman I was undertaken in retaliation to his previous unsuccessful struggle with the Maukharis. This supposition is supported by the fact that a victory over the Andhras is alluded to in the Jaunpur inscription of Isāvaravarman, father of Isānavarman Maukhari (Corp. Ins. Ind., III, p. 230).

In the Polamuru grant, Mādhavavarman I has been called *avasita-vividha-divya* (line 8). This passage has been left out in the translation of Mr. Subba Rao who has edited the inscription in *Journ. Andhra Hist. Res. Soc.*, VI, 17 ff. The passage, however, appears to me very important in connection with the administration of justice in the Andhra country at the time of the Viṣṇukuṇḍins. Here is a clear evidence of the prevalence of the system of trial by ordeals in the Viṣṇukuṇḍin kingdom. The word *divya*, here, certainly means "ordeal" and *vividha-divya* "various (forms of) ordeals." The verb *ava-so* has, among others, the meanings, "to accomplish," "to know" and "to destroy." The passage *avasita-vividha-divya* may, therefore, mean one "who has accomplished the various (forms of) ordeals," or "who knows (how to use) the various (forms of) ordeals," or "who has destroyed (i.e., abolished) the various (forms of) ordeals." We have seen that this Mādhavavarman I Viṣṇukuṇḍin

performed eleven *aśvamedhas* and a thousand *agniṣṭomas* (*kratus*). It must be noticed in this connection that no one except a fanatic can be expected to perform an *aśvamedha* sacrifice and expose his wives to such indecent and obnoxious practices as are necessary in the performance of this sacrifice. As for instance the *mahiṣī* of the performer of the *aśramedha* is required to lie down beside the sacrificial horse and to put the horse's penis into her own private parts (*cf.* *mahiṣī strayam* = *ev* = *āśra-śiśnam* = *ākṛṣya sva-yonau sthāpayati*—Mahīdhara on *Śukla-yajus*, XXIII, 18-25; and *aśvasya* *śiśnam* *mahiṣy* = *upasthe niddhatte*—Satapathabrahmāṇa, XIII, iv, 2). Mādhavavarman I, performer of eleven *aśvamedhas* thus appears to have been one of the most orthodox Hindu kings of ancient India. It is, therefore, doubtful whether we can expect from him such a great reform as the abolition of the deep-rooted system of trial by ordeals, which is sanctioned by ancient law-givers and which was in use in our country as late as the end of the 18th century and possibly still later.¹ The last meaning is, therefore, less probable. The *divyas* or ordeals, which were used in ancient Indian courts in order to ascertain the truth of a statement, has been enumerated as nine in the Divyatatva of Br̥haspati. They were ordeal (1) by balance, (2) by fire, (3) by water, (4) by poison, (5) by "image-washed" water, (6) by rice, (7) by the hot māṣaka, (8) by spear-head, and (9) by images.

(*Cf.*

dhaṭo = *gnir* = *udakañ* = *c* = *aiva viṣam kośaś* = *ca pañcamam*
ṣaṣṭhañ = *ca tāndulāḥ proktam* *saptamam* *tapta-māṣakam*
asṭamam *phālām* = *ity* = *uktam* *navamam* *dharmajām* *smṛtam*.

¹ J.A.H.R.S., VII, 195ff. Trial by ordeals is used to settle disputes among some aboriginal tribes of the Andhra region even at the present day. Mr. G. T. H. Bracken, Chief Secretary to the Madras Government, in course of his address on "Wilder Parts of India" to the Rotary Club on March 9, 1931, said, "In disputes over land the custom (* in the East Godavari Agency) is to make the parties to the dispute walk round the land, and he who walks the whole way round continually and eats some of the earth is declared to be the owner." From Report in the *A. B. Patrika*, Calcutta.

For details see my paper on the *Divyas* in *Journ. Andhra Hist. Res. Soc.*, VII, pp. 195 ff.)

In both the Ipur and the Polamuru plates the king has been said to be the delighter of the damsels residing in the houses of Trivaranagara. Trivara-nagara appears to mean "the city of King Trivara." A king named Trivara has been mentioned in the Kondedda grant (Ep. Ind., XIX, p. 267) of the Sailodbhava king Dharmarāja, as having formed an alliance with a certain king named Mādhava and fought against Dharmarāja. It is possible that king Trivara of the Kondedda inscription is the same as that mentioned in the grants of Mādhavavarman I Viṣṇukuṇḍin. Mādhavavarman I however does not appear to have lived in the time of Sailodbhava Dharmarāja and therefore can hardly be identical with the Mādhava who fought against the Sailodbhava monarch. A king named Tivara is found in the line of the Pāṇḍavas of Kośala, who had their capital at Śrīpura (see the Rajim and Baloda grants, Corp. Ins. Ind., III, p. 291 ff.; Ep. Ind., VII, 10 ff.). The charters and seals of Mahāśiva Tīvararāja of Śrīpura are in the box-headed character. According to some scholars, the box-headed characters were in use between the 5th and 6th centuries of the Christian era (*Ind. Hist. Quart.*, IX, p. 596). Fleet and Kielhorn, however, think that the inscriptions of Tīvara of Kośala are not earlier than 700 A.D. (*Indische Palaeographie*, p. 63, note 20). According to Bühler (*ibid*, p. 62), the Central Indian or "box-headed" type is found fully developed "in einer Inschrift Samudragupta's aus Eran und einer Chandragupta's II. aus Udayagiri, den kupfertafeln der Könige von Sarabhapura, den Inschriften der Vākāṭaka, der des Tīvara von Kośala und in zwei frühen Kadamba-Inschriften." The Gupta, Vākāṭaka and Kadamba records are definitely known to be earlier than 700 A.D. The same may be the case with the inscriptions of Tīvara of Kośala. It must be noticed in this connection that Fleet's and Kielhorn's view that Vākāṭaka records date from the 7th century A.D. (*ibid*, note 19) has now been conclusively disproved.

The performance of Vedic sacrifices and the epithet *paramabrahmanyā* (highly hospitable to the Brahmans) clearly show that Mādhavavarman I was a staunch follower of the Brahmanical faith.

I. The Ipur plates (set I) were issued in the 37th year of the king, possibly from the camp of Kuḍavāḍa (*vijaya-skandhavārāt kuḍarāḍa-vāsakāt*). They record a notice to the inhabitants of Vilembali in the Guddādi viśaya. The village was granted by the king to a Brahman named Agniśarman belonging to the Vatsa gotra, and all royal officers were ordered to protect it and make it immune from taxation. The executor of the grant was the king's beloved son, Prince Maṇcaṇṇa. The village of Vilembali and the Guddādi viśaya have not been satisfactorily identified.

The seal of king Mādhavavarman I attached to the plates is circular and somewhat worn. It is divided by a cross-line into two sections. The lower section bears in relief Śrī-Mādhavavarmanā in two lines. Hultzsch thought that the upper section bears the figure of Lakṣmī or *scastika* on a pedestal, flanked by two lamp-stands and possibly surmounted by the sun and the crescent of the moon (Ep. Ind., XVII, 334). As on the seals attached to the Chikkulla and the Ramatirtham plates, the figure of a lion is clearly visible, it may not be impossible that the obliterated part above the line contained the figure of a lion which was possibly the crest of the Viṣṇukuṇḍins.

II. The Polamuru grant was issued by the king when he set out on the eastern expedition and was crossing the Godavari. By it the *mahattaras* and the *adhikāra-pūruṣas* were informed that the king made an *agrahāra* of the village of Pulobūru on the Daliyavāvi river and of four *nivartanas* of land at the southern extremity of Mayindavāṭakī, and granted it to the Gautama gotra Brahman Śivaśarman resident of Kunṛūra in Karmarāṣṭra. As Polamuru (Pulobūru of the inscription) is a village in the Ramchandrapur taluka of the East Godavari District, the present taluka may be roughly identified with the Guddavāḍi viśaya

in which the village is said to have been situated. As we have already seen, the village of Polamuru was re-granted to the recipient's son by the Eastern Cālukya king Jayasimha I who probably conquered the region from the Viṣṇukuṇḍins.

In the Sanskrit Lexicon *Trikāṇḍaśeṣa*, *mahattara* has been called the same as *grāma-kūṭa*, “the head of a village.” Cf. *rāṣṭra-kūṭa* “head of a *rāṣṭra*,” an official designation in the Cālukya inscriptions. Evidently, affairs in villages were controlled by them. The word *adhikāra-puruṣa* appears to mean “a *puruṣa* (agent) having an *adhikāra* (a post),” i.e., a government official. (Cf. *na nisprayojanam=adhikāravantaḥ prabhubhir=āhūyante*, *Mudrā-rākṣasa*, Act III). The mention of the *mahattaras* along with “government officials” possibly shows that the former were not salaried officers of the government. The executors of the grant were the *Hastikoṣa* and the *Vīrakoṣa*, which terms have already been discussed.

“It is believed that the seal (* of the Polamuru plates) contains the figure of a lion, the crest of the Viṣṇukuṇḍins, and probably also the name of the royal donor” (Journ. Andhra Hist. Res. Soc., VI, 17).

5. *Mādhavaravarman II.*

Mādhavaravarman II was the son of Devavarman and grandson of *Mādhavaravarman I*. Only one copper-plate grant of this king has been discovered. It was found at Ipur, a village in the Tenali taluka of the Guntur District. The grant was possibly issued in the 17th year of the king, from Amarapura which may possibly be identified with the modern *Amarāvatī*.

Mādhavaravarman II has been described in this inscription as *trikūṭa-malay-ādhipati*, “lord of *Trikūṭa* and *Malaya*.” We do not know of any other *Malaya* except the famous *Malaya* mountain, generally identified with the southernmost part of the Western Ghats. *Trikūṭa*, mentioned together with *Malaya*, may possibly be the same as *Triparvata*, where a branch of the

Kadamba family ruled. It can hardly have any connection with the Trikūṭa placed by Kālidāsa (Raghu., IV, 58-59), in the Aparānta, *i.e.* Northern Konkan. It is, however, difficult at the present state of our knowledge to justify Mādhavavarman II's claim to be in possession of those two localities.

The plates record the grant of a village, the name of which seems to be Murotukalikī, to two Brahmins named Agniśarman and Indraśarman.

The seal of Mādhavavarman II attached to the Ipur plates (set II) is circular and much worn. It is divided by a cross-line into two sections like the seal of his grand-father. In the lower section the legend Śrī-Mādhava (-varmūnā) in two lines is very faintly visible, while the symbols in the upper section cannot be made out at all (Ep. Ind., XVII, 338).

6. *Vikramendravarman I (II?).*

The next king appears to have been Vikramendravarman I, son of Mādhavavarman I. No inscription of this king has been discovered. The most interesting point about this king is that, in the Chikkulla plates of his grandson, he is called *Viṣṇukundī-vākāṭa-vamśadvay-ālamkṛta-janinā*. Vākāṭa is evidently the same as Vākāṭaka, which was the most glorious dynasty ruling in Northern Deccan in the 5th century of the Christian Era. The relation of Vikramendravarman I with the Vākāṭakas is also referred to in the Ramatirtham plates of his son, where he is called *ubhaya-vamś-ālamkārabhūta* (who is the ornament of both the dynasties).

“The Vākāṭakas were the neighbours of the Kadambas and the Vākāṭaka kingdom extended up to the modern town of Kurnool on the banks of the Krishnā. We know that the famous temple of Śrīsailam or Śrī-parvata is in the Kurnool district, and ‘a story, as related in the Sthala-Māhātmya of the place, says that the princess Chandrāvatī, a daughter of the Gupta king Chandragupta, conceived a passion for the God on the Śrīsaila

hill and began offering every day a garland of jasmine (*mallikā*) flowers to him' (Report on Epigraphy for 1914-1915, Part II, 91).

"In fact, we shall see that this dynasty (*scil.* that of the Viṣṇukundins) had for its tutelary deity the God of Śrī-Parvata and that the first (?) king of this dynasty Mādhavavarman married a Viṣṇukundin (? Vākāṭaka) princess. I think there can be no doubt that this princess was the daughter or grand-daughter of queen Prabhāvatī," the daughter of king Chandragupta II and wife of the Vākāṭaka king Rudrasena. (See Dubreuil, Anc. Hist. Dec., 73-74.) According to Vincent Smith (J.R.A.S., 1914, p. 137) the mother of Viṣṇukundin Vikramendravarman I was the daughter of the Vākāṭaka king Hariṣena, who claimed to have conquered the countries of Andhra and Kaliṅga.

7. *Indravarman.*

The son and successor of Vikramendravarman I was Indravarman, to whom belong the plates discovered at a place called Ramatirtham in the vicinity of Vizianagram. The king has been described as *parama-māheśvara* (staunch devotee of Maheśvara, *i.e.*, Siva) and *ancka-caturddanta-samara-śata-sahasra-saṃghattā-vijayī*. The significance of the latter epithet may be understood from what has been already discussed above. It refers to the king's struggle with his eastern or north-eastern neighbours.

The Ramatirtham plates (Ep. Ind., XII, 133) which were issued from the Puraṇisaṅgamavāsaka (which possibly means the camp at Puraṇisamṛgama) in the 27th year of the king Indravarman record the grant of the village of Peruvāṭaka in the Plakirāṭha as an *agrahāra* to a *taittiriyaka* Brahman named Nagnaśarman who belonged to the Māṇḍira gotra.

The *agrahāra* was exempted from the burden of all taxes, and the peasants assembled at Peruvāṭaka were ordered to give

to the Brahman the customary share of the produce of the *agrahāra* and to perform regularly all duties, such as conveying message, etc. The future owners of the country are also requested not to confiscate but to protect the *agrahāra*. The king himself was the executor of the grant. The nature of the grant appears to support our view that king Indravarman granted the *agrahāra*, while leading an expedition against his eastern enemies. Plakirāṣṭra, as we have already noticed, is the present Vizianagram region. It is mentioned as Plakiviṣaya and Paṭakiviṣaya in the inscriptions of Cālukya Viṣṇuvardhana I (Ep. Ind., IX, 317).

The seal attached to the Ramatirtham plates shows the faint figure of an advancing lion facing the proper right, with its left forepaw raised, neck erect, mouth wide open, and the tail raised above the back and ended in a loop.

8. *Vikramendravarman II (III?).*

King Indravarman was succeeded by his eldest son, Vikramendravarman II. A copper-plate grant (Ep. Ind., IV, 193) of this king was discovered at Chikkulla in the Tuni subdivision of the Godavari District. It was issued from the Lendulūravāsaka which has been identified by Rayayya with modern Dendalūru near Ellore.

King Vikramendravarman II, who was a *parama-māheśvara* like his father, hereby dedicated a village called Regonrana to Somagireśvaranātha in honour of the matted-haired, three-eyed God, the Lord of the three worlds. Somagireśvaranātha appears to be the name applied to a *lingu* established in a temple at Lendulūra.

The village of Regonrana is said to have been situated to the south of the village of Rāvireva on the bank of the Kṛṣṇā-vennā (Krishna) in Natṛpaṭi which appears to be the name of a district.

The seal of Vikramendravarman II attached to the Chikkulla plates "bears in relief on a slightly countersunk surface a well-

executed lion, which stands to the proper right, raises the right forepaw, opens the mouth and apparently has a double tail " (*loc. cit.*). It, however, seems to me that the tail of the lion is not double as Kielhorn takes it to be, but is only raised above the back so as to end in a loop.

APPENDIX C

1. *Polamuru Plates of Mādhavaravarman I.*

The Polamuru plates of Mādhavaravarman I were edited by R. Subba Rao in *Journ. Andhra Hist. Res. Soc.*, VI, pp. 17ff. But his reading does not seem to me quite accurate in all places. Mr Subba Rao, moreover, did not notice the numerous mistakes in the composition of the inscription. His translation is also not satisfactory. The passage *Viṣṇukonḍinām = appratihata-*
śāsana has been translated as " whose edicts pass unchallenged with the name of Vishṇukuṇḍi," *daśasata-sakala-dharanī-*
tala-narapatir = avasita-rividha-divya as " who subdued the kings of the whole earth of ten hundred villages," *parama-brahmaṇya* as " who is the best Brahman," *taittirīyakasabrahmachārī* as " who is the true Brahmachari of the Taittirika branch," etc., etc. It may also be pointed out that " Ll. 29-34 " have been translated as " The executors of this grant are Hastikoṣa and Virakoṣa who are great warriors and whose duty it is to protect the grant." I fail to find any connection between " Ll. 29-34 " and Mr. Subba Rao's translation.

My reading is based on the facsimile published along with Mr. Subba Rao's paper in *Journ. Andhra Hist. Res. Soc.*, VI.

TEXT

1st Plate : 2nd Side.

- L. 1. Svasti [||*] Bhagavat-¹śrīparvatasvāmi-pād-ānu-
dhyātasya Viṣṇuko[ṇḍinā]m = appra-
L. 2. tihata-śāsanasya sva-pratāp-opanata-sāmantā-
manujapati-maṇḍala [sya]
L. 3. I. virahita-ripi - ṣaḍ - vargasya vīdh-²īḍupavitra-
trivargasya vibudha-pati-sā[ddhya?]-
L. 4. sara-vira³-vibhava-bala-parākramasyā⁴ śrī-Vikra-
mahendrasya sūno⁵ aneka-
L. 5. samara-[sam] ghaṭṭa-vijayina[h] para-narapati-
ma[ku]ṭa-maṇi-mayukh⁶-āvadāta-ca-
L. 6. [ra*]na-yugalasya Vikramāśrayasya śrī-Govinda-
varmaṇalī priya-tanayah⁷ atula-
L. 7. [ba*]la - parā[kra]ma - yaśo - dāna-vinaya - sapa⁸-
[nno] daśa-śata-sakala-dharanītala-nara.

2nd Plate : 1st Side.

- L. 8. patir = avasi[ta-vi]vidha-divyas = Trivaranaagara-
bhavana-gata-yuvati⁹-jana-vi-
L. 9. haraṇa-ratir = annanya¹⁰-nṛpati-sādhāraṇa - dāna-

¹ Read *Bhagavac-Śrī*.² Read *vīdh-iṇḍu*.³ Read *sādhya* and *tira*. *Ddhyā* is not clear, and the idea seems to be awkwardly expressed.⁴ Read **sya*.⁵ Read **nor=ane*.⁶ Read **yū*.⁷ Read **yo = 'tula'*.⁸ Read *sampanno*.⁹ Subba Rao reads *yuvati*.¹⁰ Read **r=ananya*.

māna-dayā-dama¹-dhṛti-
L. 10. mati-ksānti-kānti-sauriy²- audāryya-gābhīryya³-
 prabhṛty-aneka-guṇa-sampa-
L. 11. j - janita - raya - samutthita - bhūmaṇḍala - vyāpi-
 vipula-yaśoh⁴ kratu-sā-
L. 12. hasra - yājī Hiranyaagarbha - prasūtah⁵ ekādaś -
 Āśvamedh-āvabhr̥tha-snāna-vi-
L. 13. gata - jagad-enaskalī sarva - bhūta - parirakṣaṇa-
 cuñcuh⁶ vidva-dvija⁷-guru-vri⁸-
L. 14. ddha-tapasvi-jan-āśrayo mahārājaḥ śrī-Mādhava-
 varmā[||*] Api ca niya⁹[m=au]-

2nd Plate : 2nd Side.

L. 15. śanasam sattvam kaiśavam kā[nti] m = aindavīm¹⁰
 udvahann=urubhā[ḥ] bhāti vikram-āda¹¹-
L. 16. pta-bhūri-bhūḥ¹² apy = asau¹³ mahītala-nṛpati-
 bhāskarāḥ[||*] Parama-brahmaṇyo
L. 17. mātā-pitru¹⁴- pād-ānudyātah¹⁵ Janāśraya- mahā-
 rājaḥ¹⁶ Guddāvadi¹⁷-viṣa-

¹ Subba Rao reads *dharma*.² Read *saury-audārya*.³ Read *gābhīrya*.⁴ Read °yāśah. .⁵ Omit *visarga*.⁶ Subba Rao reads *cuñcuh*.⁷ Read °r = *vidrad-dvi*°.⁸ Read *r̥i*°.⁹ Read *nayam* =¹⁰ Read °vīm = *ud*°.¹¹ Read *urubhār=bhāti vikram-ārāpta*—.¹² Read °bhūr = *apy = asau*.¹³ Subba Rao reads *asyasau*.¹⁴ Read *pitr*°.¹⁵ Read °*dhyāto*.¹⁶ Read °*rājo*.¹⁷ Read *Guddavādi*. A.R.S.I.E., 1914, p. 10, reads *Guddavāṭi*.

- L. 18. II. yye¹ viṣaya-mahāttarān²=adhibhāra-puruṣāmīs=ca³ imam=artham=ā[jñā]pa-
- L. 19. yaty=asti⁴ vidi[ta] m=astu vo yath=āsmābhī [h]⁵ Guddavādi-vi[ṣa] ye Da[li]ya-
- L. 20. vāvi-tīre Pulo[bū]ru-nāma-grāmab⁶ Mayinda-vātaki-dakṣiṇata-sī-
- L. 21. mānte catu⁷-nivarttanañ=ca kṣetram yugapat pra[ttam] prāg-di-jigīṣayā prasthi

3rd Plate : 1st Side.

- L. 22. tāḥ Godāva[rī]m=atitaran⁸ veda-vedāmga-
vido Rudraśā[rīmī]no naptre⁹ sva-pitu-
- L. 23. r=adhika-guṇ-ādhyasi-tanoh¹⁰ Dāmaśarmmaṇaḥ
putrāya Śivaśarmmaṇe Gauta-
- L. 24. ma-sagotrāya Karinmarāstra-Kuṇḍūra-vāstavyāya
Taittirika¹¹-sabra[hīna]cāriṇe
- L. 25. veda - catuṣṭaya - samāmnāt-āvadāt-ānanāya svā-
karmm-anu¹²
- L. 26. śṭhāna-parāya phālgunyām¹³ paurṇamasyā¹⁴ soma-
rāhu-sagraha-nimi[tte]

Read viṣaye.

² Read mahatta^{*}.

³ Subba Rao reads *ṣaṇḍīṣa. Read ś=c=ema'.

Astu is superfluous.

Read *bhir=Gudda*. See p. 120, note 17.

The third letter is not clear. A.R.S.I.E., 1914, p. 10, reads the name as Pulīṇbūru.
the grant of Jayasimha I the name is Pulobūpra. Read *grāmo=Mayi*.

⁷ Read dakṣiṇāmānte catur-nīta^o.

⁸ Read prāg-dig-jigīṣayā, prasthitaiḥ and *taradbhīḥ. Subba Rao reads taram.

⁹ Subba Rao reads nappre.

¹⁰ Read *dhyāsīta=tanor=Dāma.

¹¹ Read Taittiriyaka^{*}.

¹² Read *karmm-anu^{*}.

¹³ Subba Rao reads phālgunyā.

¹⁴ Read paurṇamāsyām.

- L. 27. Janāśraya-datyā¹ sarva-kara-parihāreṇ = āgrahāri²
 [kr]tyā³ samprattah [||*] Ta-
- L. 28. thā bhavadbhīr = anyaiś = ca dharm-ādhīśata⁴-
 buddhibhīḥ pari [pā] lanīya⁵ [||*] Na kai-

3rd Plate : 2nd Side.

- L. 29. ś = cid = vādhā karāṇīyā [||*] Ājñaptir = itra⁶ Has-
 tikōṣa-Vīrakōṣau [||*] Mahā-
- L. 30. III. māṭra-yodhayos = teṣāṁ⁷ śreyaḥ kīrtir = idam⁸
 mahat⁹ [*I] Ye-
- L. 31. na¹⁰ lobhena lumpanti śvapākās = teṣu¹¹ jāyate¹²
 [||*] A[nyā]ya-
- L. 32. samakāle tu sthātavyam śaktitāḥ purā[| *]
 Upekṣati
- L. 33. punary = yatra¹³ nara[ke] sa [ni]majjati [||*]
 Ity = evam = ubhaya-
- L. 34. gaṇau sthikṛtyā¹⁴ paripālayet [||*] Atra Vyāsa-
 gītā¹⁵ [ślokāḥ]

4th Plate : 1st Side.

- L. 35. [Ba]hubhir = va[su]dhā dattā bahubhiś = c =
 ānupā[li]-

¹ Read *dattyā*. Subba Rao reads *dattyām*.

² Read "hāri".

³ Read "kṛtya".

⁴ Read "tāyita".

⁵ Read pākenīyāḥ.

⁶ Read "tīr = atra".

⁷ Read "s = tayoḥ".

⁸ Read iṣyām.

⁹ Read mahatī.

¹⁰ Read ca.

¹¹ Read tu.

¹² Read jāyante, though it does not suit the line, which seems to be in the *anugubh* metre.

¹³ Read yo = 'tra.

¹⁴ Read svikṛtya. But the meaning of the passage is not clear.

¹⁵ Read Vyāsa-gītāḥ.

- L. 36. tā [| *] Yasya yasya yadā bhūmis=tasya tasya
tadā phalam¹[||*] Sva-da-
- L. 37. ttā² para-dattām=va³ yo haretī⁴ vasundharām⁵
[| *] Śaṣṭhi-va[ri]⁶sa-sahasrā-
- L. 38. ni viṣṭhāyāñ=jāyate kṛmi[b||*] Śaṣṭhi⁶-varṣa-
sahasrāni
- L. 39. svrage modati bhūmidah[| *] Ākṣettā⁷ c=
ānumantā ca tāny=eva naka⁸ va-
- L. 40. se[t][||*] Na viṣa⁹ viṣam=ity=āhuḥ¹⁰ brahma-
svam viṣam=ucyate[| *] Viṣam-e-
- L. 41. kāki[nam] ha[nti] brahma-svam pu[tra]-pau-
trikam¹¹[||*] Vijaya-rājya-sam-vatsare¹² 

2. Polamuru Plates of Jayasimha I.

These Plates have been edited in Journ. Andhra Hist. Res. Soc., IV, 72ff. and in Ep. Ind., XIX, 254 ff. My transcript is prepared from the facsimile published in the former.

TEXT.

- L. 1. Svasti[||*] Śrī-vijaya-skandhāvārāt¹³ māṭr-gana-
parirakṣitānām Mānavya-sagotrānām

¹ Read *phalam*.

² Read *sva-dattām*.

³ Read 'dattām vā.

⁴ Read *hereta*.

⁵ Read 'rām.

⁶ Read 'gaṇi-varṣa.

⁷ Read ākṣettā.

⁸ Read *norake*.

⁹ Read *viṣam*.

¹⁰ Read 'hur=bra^o.

¹¹ Read 'kam.

¹² The upper part of the symbol looks like 40, and the lower part like 8. See above,
p. 90, note 1.

¹³ Read 'rān=māṭr'.

- L. 2. I. Hāritī-putrāṇām¹ Aśvamedha-yājinām Calukyā-
nām kula-jala-nidhi-
- L. 3. samutpanna-rāja-ratnasya sakala-bhūvana-maṇḍa-
la-maṇḍita-kīrttih² śrī-
- L. 4. Kīrttivarmmaṇah pautrah³ aneka-samara-saṁghaṭ-
ṭa-vijayina[ḥ] para-nara-
- L. 5. pati-makuṭa-maṇi-mayūkh-āvadāta-carana-yugala-
sya śrī-Viṣṇuvardhana-
- L. 6. mahārājasya priya-tanayah pravarddhamāna-
pratāp-opanata-samasta-

2nd Plate : 1st Side

- L. 7. s[ā]manta - ma[ṇ]ḍalah sva - bāhu - bala - par-
[ākram-o]pārjjita-sa[kala]-yaśo-
- L. 8. vibhāsita-dig-antarah sva-śakti-traya-trisūl-āva-
bhinna-para-narapati-
- L. 9. sakala-bala-cetanah⁴ Bṛhaspatir = iva nayajñō
Manur = iva vinaya-
- L. 10. jñāḥ⁵ Yudhiṣṭhira iva dharmma-parāyanah⁶
Arjuna-vad = apara-nara-
- L. 11. patibhir = anabhilamghita-pauruṣyah⁷ aneka-śāstr-
ārttha-tatvajñāḥ para-
- L. 12. ma-brahmanyā⁸ mātā-pitr-pād-ānudhyātah Śrī-
· Pṛdhivī-Jayasiñṅgha⁹-va-

¹ Read "nām = Aśva".² Better read "kīrtteḥ".³ Read "tro = 'neka'.⁴ Read "cetano".⁵ Read "jñāḥ".⁶ Read "no = 'rjuna'".⁷ Read "go = 'neka'".⁸ Read "brahmanyo".⁹ Read Pṛdhivī-Jayasiṅgha.

2nd Plate : 2nd Side.

- L. 13. llabha-mahārājah¹ Guddavādi²-viṣaye viṣaya-
mahatta[rān = adhi]kāra-pu-
- L. 14. ruṣāmpś = ca³ imam = arttham = ājñāpayaty =
asti⁴ veditam = astu vo yath = āsmābhiḥ⁵
- L. 15. II. Guddavādi-viṣaye Pulobūmra-nnāma⁶-grāmal⁷
veda-vedāṅga-
- L. 16. vido Dāmaśarminaṇah pauṭrāya sva-pitur =
adhiκa-guṇa.gan-ādhi-
- L. 17. vāsasya Śivaśarmmaṇah putrāya Taittirika-
sabrahmacāriṇe⁸ veda-
- L. 18. dvay-ālamkṛta-śarīrāya⁹ Gautama-sagotrāya sva-
[ka]rmm = a¹⁰[nuṣṭhāna]-

3rd Plate : 1st Side.

- L. 19. parāya pūrvv-agrāhārika¹¹-Rudraśarmane¹² Asa-
napura-sthāna-vāstavyāya
- L. 20. śrī-Sarvvasiddhi-datyā¹³ sarvva-kara-parihāren
āgrahārikṛtya samprattah[||*]
- L. 21. Tathā bhavadbhīr = anyaiś = ca dharmmadhiśata¹⁴-
buddhibhiḥ paripālanīyah[| *]

¹ Read "rājō".² Cf. da in *veda-vedāṅga* (l. 15).³ Read "ṣāḍpś = c = ema".⁴ Asti is superfluous.⁵ Read "oṣmābhiḥ =".⁶ Read "nāma".⁷ Read "grāmo".⁸ Read *Taittiriyaka-sabrahmacāriṇe*.⁹ Read "śarīrāya".¹⁰ Read "karmm-ānū".¹¹ Read *pūrvv-āgra*".¹² Read "ne = 'sana'".¹³ Read *dattyā*.¹⁴ Read *dharmm-ādhi-īayita'*.

- L. 22. Na kaiś-cid=vādhā karāṇiyā[||*] Ājñaptir=atra Hastikośa-Vīrakośa¹[||*] Byā²-
- L. 23. sa-gītāḥ Bahubhirv=vasudhā dattā bahubhiś=c=ānupālitā[| *] Yasya yasya
- L. 24. yadā bhūmis=tasya tasya tadā phalam=iti[||*]
Sam || 5 | gi 8 | di 3³

¹ Read "kośau.

² Read *Vyāsa*. The word *ślokāḥ* seems to be left out after *gītāḥ*.

³ The date was originally read in An. Rep. S. Ind. Ep., 1914, p. 10, as year [1]5. [*śu*] *di* 6 (*Sunday*). Subba Rao reads *sam* 4, which is certainly wrong. M. S. Sarma reads 5 *gi* (*grī?*) 8 | *di* 7 | (J. A. H. R. S., V, p. 188). I agree with Mr. Sarma except in the case of the last figure, which appears to me to be certainly 3. Cf. the symbol for 3 in l. 30 of the Polamuru plates of Mādhevavarman I. Cf. also Bühler's Indische Palaeographie, Tafel IX, Vol. VIII.

REQUISITES OF A SANSKRIT POET

BY

PROF. KALICHARAN SHASTRI, M.A.

Poetry is, one might say, the spontaneous expression of true and genuine imaginative feeling which appeals more than anything else to heart. It is purely an art and its immediate purpose and aim is the giving of serene aesthetic delight. To please, to teach is the poet's aim. Wordsworth very beautifully puts it : "The end of poetry is to produce excitement in co-existence with an over-balance of pleasure." Leigh Hunt makes it more distinct by holding, "Poetry strictly and artistically so called, that is to say, considered not merely as poetic feeling, which is more or less shared by all the world, but as the operation of that feeling, such as we see it in the poet's book, is the utterance of a passion for truth, beauty and power." A poet is no doubt a maker, as the name signifies and he who cannot make, that is, invent, has his name for nothing. He is a great seer. The poet lisps 'in numbers for the numbers come.' To produce poetry the soul must, for the time being, have reached the high state of exaltation, the lofty state of freedom from self-consciousness. Hence poetry is, in the deepest sense of the term, an 'inspiration.' No man can ever write a line of genuine poetry without having been 'born from above.' *Poeta nascitur, non fit.* "There is an atmosphere floating around the poet through which he sees everything, an atmosphere which stamps his utterance as poetry. The power of looking at the world through the atmosphere that floats before the poet's eyes, is not to be learned and not to be taught. This atmosphere is what we call *poetic imagination.*" This sort of imagination characterises all truly great poets. Whatever it touches in life,

it transfigures and ‘gives to airy nothing a local habitation and a name.’

The poet’s work is a special creation free from the laws of destiny, full of pleasures only, rejoicing in nine-fold Passion (in its root-sense).¹ Poetry begets fame and riches, conversancy with the ways of the world, escape from evils, instant and unalloyed happiness and instructs, like the beloved, as it entertains.² The be-all and end-all of poetry, however, is the attainment of the pure unmixed pleasure, that follows instantaneously on its perusal. To Sanskrit scholars, it is very well known that the group of four (*i.e.*, the four great objects of human desire, *viz.*, Virtue, Wealth, Enjoyment and Liberation) can easily be obtained even by those of slender capacity simply by means of poetry.³ “In the older writers there is more or less uncritical mention of fame (*kīrti*) for the poet and delight (*prīti*) for the reader as the chief objects of poetry ; and herewith ‘Bhāmaha, Daṇḍin, Vāmana, Rudraṭa, and Bhoja, though belonging to different schools of opinion seem to be content.”⁴ Poetry

¹ Niyatikṛtaniyamarahitāṁ blādaikemayīmananyaparatāntrām |
Navarasarucirāṇi nirmitimādhatī bhārati kaverjayati ||
—Kāvyaaprakāṣa, ĀnSS., I.1, p. 1.

² Kāvyam yaçise’ rthakrte vyavahāravide civetarakṣataye !
Sadyaḥparanirvṛtaye kāntāsaminitatayopadeçayuje ||
—*Op. cit.*, I.2, p. 5.

³ Caturvargaphalapraptih sukhaḍalpadhiyāmapi |
Kāvyađeva * * * ||
—Sāhityadarpaṇa, I.2.

⁴ Prītiप karoti kīrtīca sādhukāvyanibandhanam.
—Bhāmāhālāmkāra, I/2, in Pratāparudrayaçobhūṣapa, BSS.
Appendix VIII, by Trivedi, p. 209

Kāvyam ead drṣṭādrṣṭārtham prīti-kīrti-hetu tvāt.
—Kāvyaḍalāmkārasūtra, 1.1-5, BenSS., p. 10.

Kīrtim prītića vindati.
—Sarasvatikāntābhārava, I.2, KM., p. 2.

⁵ S. K. De, Studies in the History of Sanskrit Poetics, Vol. II, p. 50.

is certainly superior to the Vedas and other ancillary **Çastras** inasmuch as the former causes the highest delight to the author as well as to the reader, and can be fruitfully studied with comparative ease while the latter are dry as well as insipid and demand greater patience and assiduity. In the world of poetry, which is thought of as boundless, the poet alone is the sole creator as is Prajāpati with 'the world of eye and ear.' His sweet will fashions things as it pleases.¹ This happily reminds one of Matthew Arnold when he exclaims 'Charm is the poet's alone.'

But the production of such poetry deemed as a fine art is the result of many factors. Most of the Sanskrit rhetoricians 'commonly employ the three terms *pratibhā* (fancy), *ryutpatti* (culture) and *abhyāsa* (practice),'² as essential to the making of a Sanskrit poet and 'are in substantial agreement in their views' on the training of the Sanskrit poet and for the composition of the highest sort of poetry almost all of them are agreed in demanding the combination of all these three qualities. But it must, at once, be maintained with an unsophisticated heart that the theorists never forget that genius is indispensably necessary for the highest poetry, as is shown by the extraordinary fondness they show for citing Kālidāsa and the premier rank they assign to him. A nation that has produced Vālmīki and Kālidāsa among poets, and Ānandavardhana and Mammīta among critics, will easily get the highest seat of honour in the realms of creation and creative criticism by the acclamation of all worshippers of the Beautiful in life and art in all times and climes.

Let us begin with Dāṇḍin, the pioneer of the old school of Poetics. To Dāṇḍin, the cause of the perfection of poetry is

¹ Apāre kāvyasamsāre karireva prajāpatil |
Yathāsmai rocate viçvamp tathedam parivartate ..
—Dhvanyāloka, KM., p. 222.

² F. W. Thomas, R. G. Bhandarkar Commemoration Vol., pp. 375 ff.

natural genius, clear encyclopædic learning as well as constant application, and that these three conditions conjointly and not severally, constitute the cause of pure poetry.¹

But supposing a man who is not endowed with ‘wondrous fancy consequent upon a quality of ante-natal impression,’ attempts his hand at verse-writing, can it ever approach what is called genuine poetry? To answer this Dandin insists that even in the absence of natural fancy, much may be accomplished by dint of the other two, and that certainly such a person can be a poet if he pursue the path of learning with much assiduous care. The question can be categorically put thus: the three conditions—natural genius and the rest go to make good poetry: now if those who are highly proficient and well practised in the art of composing poetry, be not successful in it, will they stop making any effort to produce good poetry owing to their being hopelessly devoid of the God-gifted genius?² Dandin gives a negative answer most emphatically: The Muse of poetry must undoubtedly favour him who serves her with tireless application and devotion.³ In the last stanza of the first chapter of Kavyadarça, Dandin concludes his view by saying that even a person who, wishing to attain fame, gives up sloth altogether and tries, heart and soul, to serve the Goddess of

¹ *Naisargiki ca pratibhā grutafica bahu nirmalam |
Amandagābhiyogo'syāḥ kāraṇam kāvyasampadah ||*

—Kavyadarça, I.103, Premacandra's Ed., p. 95.

² *Pratibhāditritayam kāvyasampadah kāraṇamityuktam, tatra
yadi vyutpattyabhyāsavantastatsampādanapravṛtiā api
kṛtārthā na bhavanti terhi kim te pratibhāyā abhāvanīca-
yena tasmādvirameyuh nahi nāhityāḥ—na vidyata iti.*

—Premacandra, op. cit., p. 98.

³ *Na vidyate yadyapi purvavāsanā
guṇānubandhi pratibhānamadbhutam |
Grutena yatnena ca vāgupāsīta
dhruvaṁ karotyeva kamapyanugraham ||*

—Op. cit., 1.104, p. 97.

Speech, can get appreciation in this world, notwithstanding the fact of his being less gifted in the art of creating poetry.¹

Now let us see, one by one, the exact connotations of these terms with particular reference to what is called poetic fancy in order to get a clear idea about the outturn of real poetry. So first of all, let us discuss what is precisely meant by the word *pratibhā* or poetic genius.² It has been variously interpreted by different authors. And as Dr. S. K. Belvalkar says, "It is difficult to determine the exact nature of the poet's *pratibhā* and of its *modus operandi*."³ This observation contains really much truth. *Pratibhā* is that power whereby the poet sees the subject of his poem as steeped in beauty and gives to his readers in apt language a vivid picture of the beauty he has seen. It is a power whereby the poet not only calls up in his reader's heart the impressions of faded experiences, but also presents ever new, wonderful and charming combinations and relations of things never before experienced or thought of by the ordinary man. A poet is one who is a seer, a prophet, who sees visions and possesses the additional gift of conveying to others less fortunate through the medium of language the visions he has seen or the dreams he dreams.⁴ "Genius has become the regular English word for the highest conceivable form of original ability, something altogether extraordinary and beyond even supreme educational prowess and differing, in kind apparently, from 'talent,' which is usually distinguished as marked intellectual

¹ Tadastatañdrairaniçamp Sarasvatī
çramśdopāsyā khalu kirtimipubbhiḥ |
Kṛce kavitve'pi janāḥ kṛtaçramā
vidagdhagoṣṭhiṣu vihartumiçate .

—Op. cit., 1-105, pp. 98-99

² For a detailed treatment of various aspects of the subject, see Principal Gopinātha Kavirāja's learned article on "The Doctrine of *Pratibhā* in Indian Philosophy" in *Annals of the Bhandarkar Research Institute*, 1923-24.

³ Notes on *Kāvyādarça*, p. 65.

⁴ P. V. Kane's Introduction prefixed to his Ed. of *Sāhityadarpana*, p. cxliv

capacity short only of the inexplicable and unique endowment to which the term 'genius' is confined. * * * The word 'genius' itself however has only gradually been used in English to express the degree of original greatness which is beyond ordinary powers of explanation, *i. e.*, far beyond the capacity of the normal human being in creative work; and it is a convenient term for application to those rare individuals who in the course of evolution reveal from time to time the heights to which humanity may develop in literature, art, science or administrative life. * * * The meaning of 'distinctive natural capacity or endowment' had gradually been applied specially to creative minds such as those of poets and artists."¹

We turn to our Sanskrit authors who have rather given more comprehensive definitions and descriptions of *pratibhā*. The oft-quoted definition of *pratibhā* as given by Bhaṭṭatauta (Abhinavagupta's preceptor, supposed to have flourished in the last half of the tenth century), recognised almost as canonical by later writers, is the supreme intellect which evolves splendid novelties.² Or, according to Abhinavagupta, the author of *Dhvanyālokalocana*, it is defined as the supra-sensuous intelligence which is capable of inventing new things, its special feature being the felicity of creating poetry possessed of passion, clarity and beauty,³ and he quotes the authority of the divine sage Bharata, who designates it as the 'internal disposition' of the poet.⁴ To Rudrata, *pratibhā* is synonymous with *cakti* which expresses itself in an uninterrupted outburst of words amenable to various interpretations out of a mind of perfect

¹ Encyclopædia Britannica ; 11th edition, p. 595.

² Prajñā navanavonmeṣaçālinī pratibhā matā.

—ascribed to Kāvyakautuka by Māṇikyacandra in his Kāvyaprakāṣaṇketa.

³ Apūrvavastunirmāṇapakṣamā prajñā. tasyā viçeso rasāvēçavaiçadyasaundaryakāvya-nirmāṇapakṣamatvam.

—*Dhvanyālokalocana*, KM., p. 29.

⁴ Kaverantargataṁ bhāvam.

—*Nātyaçāstra*, VII. 2, KSS., p., 72.

equilibrium where contradictions are at rest.¹ Abhinavagupta, on another occasion, distinctly identifies *çakti* with *pratibhā*.²

The Agnipurāṇa, an encyclopaedia dealing with all sorts of subjects in which mediaeval India was interested, under the section of Poetics, uses the word *çakti* in a couplet where it says that humanity is rare in this world, then again is learning very rare, and even among those who are learned, attainment of the position of a poet is very rare and rarer still is the real poetic inspiration among the so-called poets.³ This is why Carlyle writes of the poets as ‘gifted to discern the God-like mysteries of God’s universe.’ We presume, therefore, that the Agnipurāṇa makes a clear-cut distinction between *kavitva* and *çakti*.

Rājaçekhara gives, however, a somewhat narrow definition within a certain limited latitude so far as the making of the Sanskrit poetry is concerned. To him, that ever-blossoming intellect which promptly presents to the core of the heart, words, the senses, the figures of speech, the poetic conventions and the like, is termed *pratibhā* or genius.⁴

Among the later writers on Poetics, Mammata, the pioneer of the new school of thought, also uses the more general word *çakti* in place of the term *pratibhā*, which he identifies with a peculiar faculty—an ante-natal capacity of the mind. It is the seed of poesy, so to say, ‘without which in the first place, there could be no poetical work, or even if there were, it would be

¹ Manasi sadā susamādhinः visphurañāmanekadhbhūdheyasya ।

Akliṣṭāni ca padānī vibbānti yasyānasaū çaktih ॥

—Kāvyaśālpakāra, I.15, KM., p. 6.

² Çaktih pratit hānam varṇaniyavastuviśayanūtanollekhāçālitvam

—Dhvanyālokaśācāra, KM., p. 137.

³ Naratvam durlabham loke vidyā tatra sudurlabhā ।

Kavityam durlabham tatra çaktistatra sudurlabhā ॥

—Adhyāya 337, Cal. Ed., p. 308.

⁴ Yā çabdagrāmamarthasārthamalāpi kāratuntramuktimārgamanyadapi ।

tathāvidhamadhibhūdayam pratibhāsayati sā pratibhā ॥

—Kāvyaśālmāpsā, GOS, p. 11.

ridiculous;¹ i.e., to be simpler, which is regarded as the *sine quâd non* of all true poetry.² It is interesting to note here that Mammaṭa, virtually speaking, has almost literally copied Vāmana³ in his explanation of the term *çakti*. A very fine etymological derivation of the word *çakti* is given by Nāgeṭa thus : It is the colossal power or faculty which enables a man to make poetry.⁴ Vidyādhara echoes the same opinion as upheld by Mammaṭa by saying that words, meanings, literary excellences and poetic figures flash in one's mind through the instrumentality of what is called *pratibhā* or *çakti* without which a poet is not capable of composing poetry or becomes an object of ridicule in so doing.⁵ Mallinātha clearly explains the point by means of a syllogistic argument : All works are the results of some peculiar faculty. All poetry is work. Therefore, all poetry is the result of some peculiar faculty ; like *sphoṭa*, etc., which is the issue of some such power, being a kind of work. On the contrary, no work follows from the non-existence of any such power, as is illustrated in the absence of *sphoṭa* in non-fire. Hence the indispensability of such a faculty is established by the above argument. Despite this truth, if we deny this power, we run the risk of being ridiculous.⁶ Judged by this logical

¹ Gaṅgānātha Jhā, Eng. Translation of Kāvyaprakāṣṭa.

² Çaktih kavitvabijarūpaḥ samskāraviçeṣah. yām vinā kāvyam na prasaret, prasṛtam vopahasaniyam syāt.

—Kāvyaprakāṣṭa, AnSS., p. 8.

³ Kavivasya bijam kavivabijam. jaumāntarāçatasamśkāraviçeṣah kaçcit. yaśmādvina kāvyam na niṣpadyate niṣpannam vā bāṇyātanam syāt.

—Vṛtti under Kāvyaśālmikārasūtra, 1-3 16.

⁴ Çeknoti kāvyanirmāṇayānayeti yogacchaktirityucyate.

—Kāvyapradipodyota, AnSS., p. 8.

⁵ Qabīlārthīgupālāmikārāḥ pratibhāntyanayeti pratibhā çaktih. yayā vinā kāvyam kartumeva na kṣamate kavīḥ, kurvan vā hāsyāpadam bhavati.

—Ekāvalī, BSS. pp. 19-20.

⁶ Sarvā kāvyakriyā çaktivigreṣapūrvikā kriyātvāt sphotādivat çaktiyabhāve kāryameva na syāt anagnāvāphoṭavadiitī pramāṇatarkābbhyām çaktisiddhirityarthāḥ. Athāpi çaktiyanaṅgi-kāre doṣamāha—kurvan vēti.

—Taraś, op. cit.

standard of argument, it is clearly proved beyond any shadow of doubt that poetic inspiration is the sole cause to the utter exclusion of the other factors, or to be more liberal, it is at least, to be considered as the leading factor towards the equipment of a Sanskrit poet, greater and higher than the other two qualities.

To Kālidāsa, *pratibhā* is the infallible determinant of the right track in life's cross-currents and is represented as a mental faculty (*antaḥkaraṇa-vṛtti*).¹ It is *rividā vis animi* which focusses intelligent light upon enigmas. *Pratibhā* is not something acquired by culture nor is it a contribution of the senses. It is of a higher origin; it is inherent in existence itself and refuses to be satisfied with nothing less than divine parentage. It is a projection of lives past on the present in the shape of a power that amazes, nay, surprises by its singularity which stamps a landmark in the history of mankind. Struck by its unforeseen brilliance, one is under the necessity of acknowledging it as *pūrra-iāsanā* or knowledge transmitted by a series of ante-natal existences. The mind has, truly observes Kālidāsa,² the power of re-calling the deep-rooted impressions of previous births.³

The poetic genius is precisely what Bacon meant when he wrote that 'poetry has something divine in it.' Shelley in his Defence of Poetry wrote: "The functions of the poetical faculty are two-fold; by one it creates new materials of knowledge and power and pleasure, by the other it engenders

¹ Satamp hi sandebhapadeṣu vastuṣu pramāṇamantahkaranapraṛptyayah.

—Monier Williams's Ed. of Qakuntalā, I. 19, p. 81.

² Mano hi janmāntarasaṅgatiśām, and

Taccetasā emarati nūnamasbodhapūrvam
bbāvasthirāpi janmāntarasaṅgatiśām

Op. cit., V.2, p. 185.

³ Our life, to speak the truth, is a great continuum in the long series of births and rebirths. It is a process, unbroken in its run, which is made by Hindu philosophers a strong argument to establish the immortality of soul.

—P. C. Chakravarti, Linguistic Speculations of the Hindus, p. 114.

in the mind a desire to reproduce and arrange them according to a certain rhythm and order which may be called the beautiful and the good.”¹ Reference is also made by Bhāttatauta to this two-fold gift of the poet of seeing romantic visions of remarkable beauty and of communicating through appropriate language those visions he sees.²

We can ill afford to close this discussion without referring to the Kāvyamīmāṃsā.³ Rājaçekhara has given an elaborate discourse that is particularly devoted to the various points involved in the subject of *pratibhā*. He has not only brought together several views on the subject and tried to present them in a logical way, but has finally arrived at a position as to what are the essential requisites to become a poet. Rājaçekhara discusses, and very ingeniously too, the function of imagination (*pratibhā*) as creative (*kārayitṛi*) or discriminative (*bhāvayitṛi*) —a distinction which really deals with the distinction between the power to create and the power of appreciation.⁴ That which causes the excellences of a poet is called *kārayitṛi* which again is subdivided into three kinds: (i) *sahajā* or inborn, (ii) *āhāryā* or adventitious and (iii) *aupadeçikī* or acquired by instructions. The *sahajā* depends upon some peculiar ante-natal factor. Or, as Punyarāja rightly says: it dawns upon a being as an intellectual heritage by the force of *abhyāsa* (practice) experienced

¹ Quoted by Gaṅgāñātha Jhā in his Eng. Translation of Kāvyaprakāşa.

² Vicitrabhāvadharmaṇītattvapratkhyā ca darçanam !

Se tattvadarçanādeva cāstreṇu pañhitā kavīḥ !

Darçanādvarçanāccātha rūḍhā loke kavīrūtiḥ !

Tetbhāi dargane svacehe nitye' pyādikāvermuneḥ !

Noditā kavītā loke yāvajjītā na varçanā !

—Quoted by Hemacandra in his Kāvyānuçāsana, KM. p. 31.

³ Kāvyamīmāṃsā is a very grand treatise on Poetics and it is too curious a work to be missed by earnest scholars, inasmuch as it goes beyond the well-established topics of Poetics proper and gives a somewhat rambling treatment of various extraneous matters by furnishing information of an encyclopaedic character, e.g., about geography, about flora and fauna, etc.

⁴ Keith, A History of Sanskrit Literature, pp. 340-341.

in the long chain of previous cycles of births.¹ The *āhāryā* is derived from some faculties of this present birth. And the *aupadeçikī* is born of instructions from religious treatises dealing with peculiar and mystical incantations, etc. The first one refers to the *a-priori* theory of the origin of knowledge and the last two, to the *a-posteriori* theory. The one is purely intuitive, while the other empirical.² And just according to the three-fold classification of this sort of creative genius, poets are also classed into three ranks as *sārasvata* (naturally intelligent), *ābhyaśika* (made) and *āupadeçika* (instructed). The *sārasvata* poet expresses himself, independent of fear, frown or favour, the presentation of an *ābhyaśika* poet is 'cribbed, cabined and confined' while the *aupadeçika*'s verse is interspersed with shade and shine. The *bhāvayitri* kind of genius is that which matures and refines a man of appreciative talents. It endows him with a power to follow the poet in his search for apt expressions to clothe his unique conceptions and visualise the poet's images as his own, else the poet's fastidious care amounts to a blow on water.³

¹ Janmāntarābhyaśabhetukeyam.

—Punyarāja under Vākyapadiya, II. 150, BenSS., p. 142.

² The *a-posteriori* school maintains that all knowledge is posterior, i.e., subsequent to experience, and by experience they mean sensations only. Thus Locke maintained that mind at the time of birth is a *tabula rasa* or like a blank sheet of paper, and knowledge begins with impressions produced upon it by sensation. The *a-priori* school, on the contrary, holds that the fundamental categories of knowledge are prior or antecedent to experience, being supplied by the mind from within. Thus Descartes maintained that there are certain ideas which are innate (i.e., born in us) or connate (i.e., born with us)—ideas with which we are born, e.g., the idea of God, the ideas relating to the principles of Mathematics and Morals. These ideas could not have been derived from experience, for the simple reason that without them experience itself is not possible.

—Lecture notes of Dr. A. N. Mukherji, King George V Professor of Mental and Moral Philosophy, Calcutta University.

³ Sa ca dvividhā kārayitri bhāvayitri ca. kaverupakurvāṇā kārayitri. sāpi trividhā sahabājāharyāupadeçikī ca. janmāntarasapskārāspekṣipī sahajā. janmasapskārayonirāhāryā.

In fact it can be said without any fear of contradiction that Rājagekhara's bifurcation of genius serves only to show that one nourishes the poet, the other, the critic.¹

It is very interesting to note, however, that Rājaçekhara has gone a step further on the trodden path in his general classification of *pratibhā* and its sub-divisions. The more common view is that *pratibhā* is of two kinds: *sahajā* (or *naisargikī* as Dāṇḍin² puts it³), i.e., God-gifted, the spark of divine light as it were; and *utpādyā*, i.e., begotten. As Rudrata says: genius, as is spoken of by others, is two-fold—

*mantrantrādyupadeçaprabhavā aupadeçikī. * * ta īme trayo'pi kavayaḥ sārasvata
ābhyaśika aupadeçikāca. * **

Sārasvataḥ svatantraḥ syādbhavedābhyaśiko mitah !
Aupadeçakavistvatra valgu phalgu ca jalpati * * ||

*bhāvakasyopakurvāpā bhāvayitṛi. sā hi kavelī grāmīmabhiprāyañca bhāvayati, tayā khalu
phalitaḥ kavervyāpārataruranyathā so'akeci syāt.*

—Kāvyamimāṃpsā, GOS., pp. 12-13.

¹ Reference is also made by Rājaçekhara, by quoting two contradictory opinions, whether any line of demarcation can successfully be drawn between the two terms *kari* and *bhāraka*, whether *kavitra* as well as *bhārakatra* implies the same thing. The opinion regarding the absence of any difference between the terms as held by *ācāryas* (teachers) is negated by Kālidāsa (a poetician). We quote below the following lines :

' *Kaḥ punaranayorbhedo yatkavirbhāvayati bhāvakaçca kaviḥ* ' ityācāryāḥ. *tadābhūḥ*—

*Pratibhātāratamyena pratisthā bhuvi bhūridhā !
Bhāvakastu kaviḥ prayo na bhajatyadhamāmp daçām ||*

' *na' iti kālidāsaḥ. pṛthagēva hi kavitaḥ bhāvakatvarpa, bhāvakatvācca kavitvam. svarūpa-
bhedādvigayabhedaca.*

—Kāvyamimāṃpsā, GOS., pp. 13-14.

² Dāṇḍin uses the word *naisargikī* as a significant qualitative epithet to *pratibhā* (Kāvyādarça, I. 103). He seems to have taken quite a rational view by laying apparently a strong emphasis upon genius. It is purely inborn and hence clearly it is a gift of God as he refers in the next stanza to the prenatal factor called *apūrvā* or *vāsanā*. Tarunā-*vācaspati*, perhaps the oldest commentator on Dāṇḍin's Kāvyādarça, very lucidly explains this point thus :

' *pūrvajanmakṛtavidyāyāsotpannañānajanitasamskṛāgatā yā buddhiḥ sā naisargikī
pratibhā.*'

³ ' *naisargikī* ' in the sense as Rājaçekhara illustrates it by means of a simile that lead does not give up its natural blackish colour inspite of its thousand washings, cf. Black will take no other hue (' *naisargikī hi sanskṛāçatenāpi vaṅgamiva kālikāmp te na
jāhati* ').

natural and created ; the natural genius as it is born with a man, i.e., connate and not post-natal, is superior to the other. The created genius originates somehow with great difficulty through extraordinary culture only.¹ The former is a finished product from the very birth while the latter is somehow produced by constant application to Čāstras through sheer industry and perseverance. Incidentally, we are led to another towering figure in the realm of Sanskrit Poetics—Hemacandra. He classifies genius into two aspects—*sahajā* and *aupādhikī* (conditional or pertaining to visible attributes). The former class of genius tallies *in toto* with the *sahajā* form of genius spoken of by others. The latter class, however, which is believed by Hemacandra to spring from incantations, divine grace and the like,² clashes with the time-honoured sect of genius known as *utpādyā*. Hemacandra refuses to believe that culture or practice can ever evolve genius. Besides, he ventures to classify genius endowed by the grace of Providence in *aupādhikī*. We are prone to believe that Hemacandra consciously struck a key the discordant note of which he shrewdly foreheard. However, the functions of these two kinds of genius, namely, *sahajā* and *utpādyā*, we may be a little bold to presume, are the production of poetry by the one and the excellence of such production by the other. The inborn genius has that creative power of which the produced genius is bereft ; it chisels and refines the poetic execution though. It will, however, be seen later on that this ‘produced genius’ approaches very close to marked culture (*vyutpatti*).

It will not be irrelevant here to consider, in short, the Western

¹ Pratibhetyparsairuditā sahajotpādyā ca sā dvividhā bhavati !

Pūṣā saha jätatvādanayostu jyāyasi sahajā ||

* * * *

Utpādyā tu kathañcidvyutpattyā janyate parayā ||

—Kāvyaśālākāra, I. 16-17, KM., p. 6.

² Mantradevatānugrahādiprabhaavaupādhikī pratibhā.

—Kāvyaśālaśāstra, KM., p. 5.

idea about genius. The second form, *viz.*, *utpādyā*, as shown above, is very much like the occidental view of genius as held by many of the Western scholars ; the idea of which is very beautifully presented in Carlyle's saying when he defines it very happily as the 'transcendent capacity of taking trouble, first of all'¹ or an 'immense capacity for taking infinite pains.' In Sydney Smith,² we find a clear exposition of this definition thus : "It would go very far to destroy the absurd and pernicious association of genius and idleness by shewing that the greatest poets, orators, statesmen and historians—men of the most brilliant and imposing talents—have actually laboured as hard as the makers of dictionaries and the arrangers of indexes ; and that the most obvious reason why they have been superior to other men, is that they have taken more pains than other men. * * * * *

Speaking generally, the life of all truly great men has been a life of intense and incessant labour. They have commonly passed the first half of their life in the gross darkness of indigent humility—overlooked, mistaken, condemned by weaker men, thinking while others slept, reading while others rioted, feeling something within them, that told them that they should not always be kept down among the dregs of the world. And then, when their time was come, and some little accident has given them the first occasion, they have burst out into the light and glory of public life, rich with the spoils of time, and mighty in all the labours and struggles of the mind. Then do the multitude cry out 'A miracle of genius.' Yes, he is a miracle of genius because he is a miracle of labour, because instead of trusting to the resources of his own single mind, he has ransacked a thousand minds, and made use of the accumulated wisdom of ages.³

¹ Frederick the Great, IV. iii. 1407.

Quoted in Encyclopædia Britannica, 11th edition, p. 595 fn.

² Labour and Genius.

³ " Some have even defined genius to be only common sense intensified or as Buffon said of genius ' it is patience.'

" Newton's was unquestionably a mind of the very high order and yet, when asked by

While not denying the decidedly supreme necessity of a poet's genius, almost all the writers, early or late, agree in emphasising the necessity of sound study and a rich fund of experience. The second factor that goes to constitute the equipment of the Sanskrit poet is culture (*vyutpatti*) acquired through much reading combined with vast experience. It is, however, a well-authenticated and, at the same time, self-evident fact that a certain modicum of culture is indispensably necessary for a man aspiring to be a poet, if he is to successfully appeal to the hearts of his contemporaries and to the future generations. Rudraṇa enumerates, in brief, a list of subjects of study, *viz.*, prosody, grammar, fine arts, ways of the world, logic and so forth that the poet should be fully conversant with.¹ Māmīṇaṭa elucidates the word *vyutpatti* in his *vṛtti* as it gives the facility of composition arising from a careful study of 'objects', *i.e.*, of all kinds of objects—both animate and inanimate, of 'sciences' such as metrics, grammar, lexicology, zoology, etc., and of 'poetry,' *i.e.*, the works of great poets² It is, according to Vidyādhara, *bahuçāstradar-*

what means he had worked out his extraordinary discoveries, he modestly answered 'By always thinking unto them.'

"The extraordinary results effected by dint of sheer industry and perseverance have led many distinguished men to doubt whether the gift of genius be so exceptional an endowment as it is usually supposed to be. Thus Voltaire held that it is only a very slight line of separation that divides the man of genius from the man of ordinary mould.

"But while admitting to the fullest extent the wonderful achievements of labour and recognising the fact that men of the most distinguished genius have invariably been found the most indefatigable workers, it must nevertheless be sufficiently obvious that without the original endowment of heart and brain, no amount of labour however well-applied could have produced a Shakespeare, a Newton, a Beethoven, or a Michael Angelo."

—Smiles.

¹ Chandovyākaraṇakalālokaḥ hitipadapadārtha vijñānāt |

Yuktāyukta vivēko vyutpatti rīyan samāsenā ||

—Kāvyaśāmpkāra, I. 18, K.M., p. 6.

² 'Nipūṇatā lokaçāstrakā vyādyavekṣeṇāt'—lokaṣaya sthāvara jaṅgamātma kalokavṛttasya
gāstrāṇām chandovyākaraṇābhidhāna koṇakalācaturvargagajatragakhargādilakṣaṇagrāntha-
nām kāvyañānām mahākavisambandhinām * * * *

—Kāvyaśrakāṣa, ĀnSS., pp. 7-8.

çitā or thorough proficiency in many branches of learning. Those alone who are versed in many lores, can be poets.¹

Rājaçekhara, who often quotes others before establishing his own views on any subject under the name and style of 'Yāyā-varīya,' describes *vyutpatti* as the power of discretion which is the natural issue of versatility.² The poet's ideas, resulting as they do from his culture, are sure to assume a universal character (*sarvatodikkā*).³ From what he remarks in the concluding line of the fourth chapter of his treatise, where he designates *vyutpatti* as the mother of poetry,⁴ we are flattered to believe that he raises culture to a pre-eminence which genius alone is richly entitled to.

The third element is continuous application (*amandaçeābhī-yogaḥ*) to the Çāstric lores with concentrated attention and incessant industry. The uninterrupted and studious composition with a critical eye of a particular branch of learning, such as kāvya, conducted by a well-versed preceptor is called *abhyāsa* (practice).⁵ It is the⁶ frequent attempt at writing poetry under instructions

¹ Bahuçāstradarçitā vyutpattih sarvapatnīnālī khalu kavyo bhavanti.

—Ekāvalī, BSS., p. 20.

² Ucitānu ita ieko vyutpattirīti yāyāvarīyah

—Kāvyaṁmāmsā, GOS., p. 16.

³ Sarvatodikkā hi kavyācāh.

—Loc. cit

⁴ Vyutpattim kāvyamātaram.

—Kāvyaṁmāmsā, GOS., p. 15.

⁵ Anāratamp gurūpāntē yaḥ kāvye racanādareḥ !

Tāmabhyāsam viduh * * * ||

—Vāgbhaṭālampkāra 1.6, KM., p. 6.

⁶ 'Kāvyaçāikṣayābhyaśah'—kāvyaṁ kartum vicārayituñca ye jānanti tadupadeçena karaṇe yojane ca paunāhpunyaena pravṛttiḥ.

—Kāvyaaprakāṣa, ĀnSS., pp. 7-8.

'Bahuñā kāvyanidāneca çikṣayā muburabhayanām manisibhiḥ' kāvyaṁ kartum vidanti vindata iti kāvyanidāḥ kāvayaḥ sahṛdayācō * * tesām hi çikṣayā kāvya-karaṇapavicāla-yoravicchedene pariçilanam.

—Ekāvalī, BSS., pp. 19-22.

from those who know how to compose poetry and from those who know how to appreciate it.¹

Vāmana in his *vṛtti* under the aphorism 1.3.24, by quoting from one of his prior authorities in order to bring the idea of practice home to our minds explains thus: it is repeated practice alone that gives dexterity in work. And it is illustrated by means of a simile that stones do not wear away owing to the fall of water upon them only for once.² Hemacandra, the famous Jain polihistor, quotes the same two lines in support of and explanation to his *kārikā*.³ Genius, augmented by and leavened with diligent practice, is fancied to serve the same purpose in the art of poetry as the *kāmadhenu* (wish-yielding

¹ Those who know how to appreciate poetry, are known in Sanskrit as *sahṛdayas*, i. e., connoisseurs : cf.

Yeṣāṁ kāvyañuçilanābhyaśavaçādvicādibhūte manomukure varṇaṇiyatanmayibhavana-yogyatā te bṛdayasamprādabhājaḥ sahṛdayaḥ; yathoktam—

'Yo' rtho bṛdayasamprādi taṣya bhāvo rasodbhavaṣṭḥ !

Qarīṣam vyāpyate tena çuṣkam kāṣṭhamivāgninā ||

(Nātyaçāstra, VII. 7).

—Dhvanyālokalocana, KM., p. 11.

" The less exalted lover of literature is not overlooked. This is *rasika* or *sahṛdaya*. Hemachandra defines him ' The *sahṛdaya* is one whose mind mirror being made spotless by the practice in studying poetry, he has with a sympathy of heart a fitness for identifying himself with the matter described.' "

—F. W. Thomas.

" The *rasika* or *sahṛdaya*, the man of taste, the true appreciators of poetry, must be, according to the conception of the Sanskrit theorists, not only well read and wise, and initiated into the intricacies of theoretic requirements, but also possessed of the fine instincts of aesthetic enjoyment. "

—S. K. De, Studies in the History of Sanskrit Poetics, Vol. II, p. 55.

² Abhyāso hi karmaṇāp kaugalamāvahati.

na hi sakṛṇṇipatitamātrepodavindurepi grāvaṇi nimnatāmēdadhatīti.

—*vṛtti* under Kāvyālaṅkārasūtra, 1.8.24.

³ Kāvyañuçāsana, KM., p. 8.

cow) in the myth.¹ Practice is constant application without any interruption whatsoever. It is applicable to all affairs of life and always imparts skill to a great extent to all things practised. It is differentiated from deep meditation (*samādhi*)² in so far as the former requires purely an external effort while the latter an internal one.³

Following in the wake of his predecessors, Rudraṭa also considers the same three qualities essential to one who aspires to be a poet,—the qualities which go to render poetry agreeable, by accepting what is substantial and rejecting the non-essential portions.⁴

As regards the essential requisites that contribute to the making of the Sanskrit poet, Daṇḍin is exactly followed by no less an authority than Mammaṭa himself, one of the most talented exponents of the new school, who holds that genius, culture as well as practice form conjointly, and not singly, the source, and not the sources of poetry.⁵ The singular *kāraṇam* in Daṇḍin is followed by the singular *hetuh* of Mammaṭa and this, of course, gives us the conclusive fact that the above three together, constitute the cause and not the causes of the production of poetry.⁶ Govinda Ṭhakkura, the gifted author of the *Kāvyapradīpa* (considered as one of the most authoritative

¹ *Abhyāsaśāṃskṛtā hi pratibhā kāvyāmṛtakāmadhenurbhavati.*

—*Kāvyanuṣāṣṭana*, KM., p. 8.

² It should be noted that the word *samādhi* cannot properly be translated either by 'concentration' or by 'meditation.' It means that peculiar kind of concentration in the Yoga sense by which the mind becomes one with its object and there is no movement of the mind into its passing states.

—S. N. Dasgupta, *A History of Indian Philosophy*, Vol. I, p. 272 fn.

³ Avicchedena qīlanamabhyāsaḥ; sa hi sarvagāmī sarvatra nṛatiçayam kauçalamā-dhatte. samādhirāntaraḥ prayatno vāhyastvabhyāsaḥ.

—*Kāvyamimāṃsa*, GOS., p. 11.

⁴ Tasyāśrānirāsāt sāragrahaṇācca cāruṇaḥ karaṇe !
Tritayamidam vyāpriyate qaktirvyutpattirabhyāsaḥ॥

—*Kāvyaśāṃkāra*, I.14, KM., p. 5.

⁵ Qaktirnipūpatā lokaçāstrakāvyādyavekṣaṇāt !
Kāvya jñāg. kṣayābhyaḥ iti hetustadubhavet॥

—*Kāvyaśrākāça*, AnSS., p. 7.

⁶ Iti trayāḥ samuditāḥ, na tu vyastāstasya kāvyaśyodbhavē nirmāṇe samullīṣe ca he-turva tu hetavaḥ.

—*Op. cit.*, p. 8.

commentaries on Kāvyaprakāṣa by Mammaṭa) strengthens the statement of *vṛtti* in his commentary owing to the use of the word *iti* in it. The word *iti* is used for the presentation of all combined. Otherwise it amounts to a misnomer. And the production of poetry means, of course, the best production. None of these three is sufficient in itself, to produce the best poetry. These three must fuse, by a chemical process, as it were, before real poetry can be produced. Here the cause of the production of poetry is to be understood by reference to that of the making of the pot.¹ The cause of the evolution of the earthen pot (*ghaṭa*) is to be sought in the joint and interdependent action of all the factors,—the staff, the wheel and the like as distinguished from the cause of fire which may be the amalgam of hay and wood used for kindling a fire or the combination of hay and flint, individually.² Logically speaking, each of the three requisites is a condition and not the cause, which is the sumtotal of conditions—positive and negative.

The word *pratibhā* has been put first by almost all the writers on Poetics, only to indicate its predominance over culture. Genius has the power to ward off the imperfections arising from the cultural penury (*vyutpattimānaya*).³ Rājaçekhara has considered *pratibhā* and *vyutpatti* at great length and has practically exhausted the wealth of ideas regarding the two that his learned forerunners heaped up. Ānanda (identified with Ānandavardhana, the well-known poetician), as Rājaçekhara quotes him,

¹ Itiçabdo militopasthāpanāya. anyathā tadvaiyarthya meva syet. tathā ca kāvyasya-odbhava utkṛṣṭotpattiḥ. tayā kāryeṇa militānāmupadīhanam. daṇḍacakrīḍināmeva ghaṭeṇa. na tu militatvena kāraṇataiveti bhrāmaḥ kāryaḥ.

—Kāvyapradīpa, AnSS., pp. 8-9.

² Daṇḍacakrīḍinyāyena parasparsasāpekṣetrayaḥ kāraṇam; na tu tṛṣṇāraṇīmaṇīnyāyena pratyekam kāryotpādakāḥ.

—Quoted by Trivedi in his Ed. of Ekāvali, p. 349.

³ Pratibhāyāḥ prāgupādānam vyutpattiṣapekṣayā prādhānyadyotanāya vyutpatti-māndyaśvibhūtadoṣpākarāṇya prabhaviṣṇutvēt pratibhāyāḥ.

—Ekāvali, BSS., pp. 20-21.

says that *pratibhā* is superior to *vyutpatti* as the former is calculated to amend fully the loss consequent on the total lack of the latter; while Maṅgala (a rhetorician), whom Rājaçekhara regards as another authority, goes to the opposite pole and maintains that *vyutpatti* is superior to *pratibhā* for just the opposite reason. Rājaçekhara intervenes and does so very wisely to reconcile here, as elsewhere, the two contradictory views by taking an intermediate position. He holds that both must commingle to produce the happiest effect. He has taken recourse to a beautiful imagery—Beauty is neither symmetry of form nor is it loveliness but the two taken together. The same is the case with a poet who is neither a genius alone nor a cultivated intellect merely but is the nursling of both.¹

Now a beautiful question arises whether these three taken together should be regarded as the cause of the production of poetry or genius alone should be deemed so. We have seen that Dandin, Rudraṭa, Mammaṭa and others are the supporters of the first alternative. And others again regard *pratibhā* as the sole equipment required for the making of a genuine poet, and the other two factors are not indispensably necessary : they might only be considered as mere conditions which simply go to bring poetry to a higher level of excellence inasmuch as it is sometimes seen that even a gifted child can compose brilliant pieces of poetry.² “Although it is true that even an unschooled person who has not seen much of the world can yet produce, from out of the themes

¹ ‘Pratibhāvyutpattyoh pratibhā ḡreyasi’—ityānandaḥ. sā hi kaveravyutpattikṛtam doṣamāśamācohādayati. * * * ‘Vyutpattiḥ ḡreyasi’—iti maṅgalaḥ. sā hi kaverāṣakti-ḥṛtam doṣamācohādayati. * * * ‘Pratibhāvyutpatti mithaḥ samavete ḡreyasyau’—iti yāvāriyāḥ. na khalu lāvanya-lābhādṛte rūpasampadṛte rūpasampado vā lāvanya-lābhdhir-mabete saundarybya. * * * pratibhāvyutpattimāṃcā kaviḥ kevīrityucaye

—Kāvyamimāṃsā, GOS., pp. 16-17.

² Trikām samuditameva heturityeke. dimbhenāpi kāvyotpādanācohaktireva kevala-tyapare.

—Sābityakaumudi, p. 4.

Anyadvayam tu prakarṣyaiveti bhāvaḥ. qaktiḥ kha'vyanysthādīdhāniyatupfir-
vastitātagma. pariyataḥ av tathātvamiti bhāvaḥ.

—Commentary thereon.

falling within his limited experience, poetry that is immortal, it must nevertheless be admitted that the majority of readers like to read composition that has a broad outlook and a rich suggestiveness.”¹

The upholders of the view, namely, that genius alone forms the only cause of poetry, have advanced sound arguments in support of their contention. Below is given, in detail, the opinion of Jagannātha, which, in a manner unique in itself, reflects much credit on his power of argumentation. Jagannātha, one of the greatest exponents of the modern school of the science of poetry, famous for his clear logical acumen, holds that the sole cause of poetry is the poetic genius alone. The obvious and at the same time exquisitely fascinating argument in justification of his position is as follows : Poetic genius consists in the presentation of words combined with sense that helps the making of poetry. And the cause of genius is the unseen power generated by the grace of the gods or of holy men. In some places, however, poetic imagination is due to the unusual culture and to the repeated practice in the art of composing poetry. But the aforesaid triad should not be taken together to form the cause of genius, inasmuch as in the case of unschooled boys, without the aid of the two qualities, viz., thorough proficiency and diligent practice, the unfoldment of natural fancy through the grace of great personages alone, can be happily perceived. Nor can we assert the unseen power alone to be its only cause, as it is seen of a person who, for some time, proved a failure in composing poetry, that genius begins to dawn upon him through culture and through practice, generated somehow. It will ill afford to retort that there also unseen power served as the cause because even before the origination of proficiency or of practice that unseen power surely existed though producing no such effect as genius. And neither is it a sound argument to say that in this case, a counter unseen power intervened. Because to ascertain

¹ S. K. Belvalkar, Notes on Kāvyaśāra, p. 65.

the causes of genius, it is expedient to admit each of the established factors, namely, culture and application in preference to the two-fold unseen power pertaining to the numerous places. Hence it is quite relevant to conclude that each of the three, viz., the unseen power originated by the grace of the gods and of holy men, extensive culture and repeated practice in the art of poetry gives rise to genius which again is deemed to be the determining cause of the production of poetry.¹ After the most scientific manner in which Jagannātha has discussed the source of true poetry, we feel no hesitation in saying that his discussion is marked by both comprehensiveness and precision. His copious, majestic, logical flow of language, even if sometimes apparently beyond what the subject-matter demands, is never out of keeping with the occasion. Marvellously subtle as is his argument, there is no denying that it establishes the truth that it is 'the native vigour of genius' alone that gives rise to poetry.

Nāgeśa, in his commentary on Rasagaṅgādhara, points out, and we think, rightly, in his usual scholastic way that the use of the word *eva* by Jagannātha, in the sentence *na tu trayameva*, suggests that in some of the places, however, the three circumstances—unseen power, unusual proficiency, and unwearied practice—which were severally deemed as the originating causes of genius by Jagannātha, conjointly constitute the cause of poet's *pratibhā*. And genius which is the outcome of this remarkable 'triad' is certainly extraordinary ; and the poetic production of

¹ *Tasya ca kāraṇam kavigatā kevalś pratibhā, sā ca kāvyaghaṭanānukūlaçabdārthopasthitīḥ.* * * * *tasyācē hetuḥ kvaciddevatāmahāpurusaprasādēdijanyam-adṛṣṭam. kvacicca vilakṣṇapavyutpattikāvyakarapābhyaśau. na tu trayameva. bālādestau vināpi kevalāmehāpurusaprasādādapi pratibhotpatteḥ.* * * * *nāpi kevalamadṛṣṭameva kāraṇamityapi cākyām vadirum. kiyantañcīt kālaṁ kāvyaṁ kartumaçaknuvataḥ katha-mapi samjātayorvyutpattyabhyāsayoḥ pratibhā, ēḥ prādurbhāvasya dārgaṇāt. tatrāpya-dṛṣṭasyāṅgikāre prāgapi tābhyaṁ tasyāḥ prasakteḥ. na ca tatra pratibhāyāḥ pratibandhakam-adṛṣṭāntaram kalpyamīti vācyam. tādṛṣṭānekāsthalagatādṛṣṭadvayakalpanāpekṣyā kīpta-vyutpattyabhyāsayoreva pratibhāhetutvakalpane lāghavāt. atāḥ prāguktessarapi'reva jyāyasi. tādṛṣṭādṛṣṭasya tādṛṣṭavyutpattyabhyāsayoçca pratibhāgataṁ vailakṣṇyam kāryatāvaccheda-kām, eto na vyabhicārāḥ. pratibhātvānicā kāvitāyāḥ kāraṇatāvacchedakam.*

such a genius is undoubtedly without any peer. Hence there can be no inconsistency or fallacy in Jagannātha's assertion.¹

What will first strike a reader in following the discussion of Jagannātha in his attempt to determine the source of true poetry, is the three-fold cause of genius as formulated by him. There seems to be a hierarchy in those three causes ; the first place, of course, will be accorded to *adr̥ṣṭa* (unseen divine power), as it clearly refers to the original endowment, while culture and practice will come next in order. Genius, as rising from the three different sources, is necessarily of three kinds. But Bharṭṛhari, the famous author of Vākyapadiya, the philosopher-grammarians as he is usually called, has spoken of six different kinds of *pratibhā* arising from nature, exercise, practice, concentration of the mind, deeds done in previous lives and special efficiency.²

It will not be unprofitable, at this stage, to quote by way of comparison and contrast, the view held by Rājaçekhara. With Rājaçekhara, *çakti* chiefly, that is to say, without depending upon any other quality, is the sole cause of poetry.³ This is called *kāryodbhāsinī çaktih* (*i.e.*, power which generates poetry) or, in other words, poetic inspiration.⁴ This *çakti* again which is considered as the joint effect of *samādhi* (concentration of mind) and *abhyāsa* (practice), gives birth to what is called *pratibhā*.

Hemacandra attributes to genius, tempered with culture and practice, the origin of poetry. Conversely, he maintains that the attempt of persons divorced from genius to produce poetry falls

¹ Evakāreṇa kvacittritatasyā i kāraṇatvamiti dhvaneyati. vilakṣṇatritayajanya-pratibhā cātivilakṣaṇā. tajjanayamp kāvyamp cātivilakṣaṇameveti na doṣa iti d.k.

—Gurumarmasprakāṣṭa, KM., p. 8.

² Svabhāvacaraṇābhyāsayogaḍr̥ṣṭopapāditā |

Vigīṣṭopahitā ceti pratibhāmp sañvidiśamp vidubḥ |

—Vākyapadiya, II-154, BenSS., p. 143.

³ Sa kevalamp kāvye heturiti yāyāvariyeḥ.

—Kāvyaṁimāṁsa, GOS., p. 11.

⁴ The importance of inspiration is recognised in Buddhist tradition, Aṅguttara Nikāya, II. 230, where poets are classed on the basis of reflection, study, subject-matter, or inspiration.

—Keith, A History of Sanskrit Literature, p. 840 fn.

flat. Culture and practice cannot be viewed as the efficient causes of poetry, but they simply pave and polish the execution.¹ Genius, however, admits of classification according as it takes its rise from a cause, unseen or seen—*sahajā* or *aupādhikī*. Herein arises a point of difference between Jagannātha and Hemacandra. Genius, born of divine grace (*devatānugraha*), is categorised by Jagannātha as *adr̥ṣṭa*, while Hemacandra, on his own principle of distinction, classifies it in *aupādhikī*, so called because of its genesis in some visible attributes.²

Vāgbhaṭa, the son of Nemikumāra (who belongs to the fourteenth [?] century A.C.) in his *Kāvyānuçāsāna*, and in his own gloss to it under the name of *Alamkāratilaka* upholds substantially the view of Hemacandra.³

The author of *Vāgbhaṭālamkāra*, son of Soma (supposed to have flourished in the first half of the twelfth century) also, practically speaking, is of the same view that genius is the originating cause of poetry, culture forms its adornment, and practice ‘effects its abundant outflow.’⁴

We do not think it worth our while to give others’ opinions in this connexion, because they do not materially differ from those cited above. We close the discussion, by a reference to the view of Jayadeva, the author of *Candrāloka*. He maintains that poetry springs from genius alone, associated with study and experience. He cites an example, in the garb of a simile: ‘The birth of the creeper is due to the seed embedded in

¹ ‘Pratibhāsyā hetuḥ’. ‘Vyutpattyabhyāsābhyaṁ sāṃskāryā’—ata eva na tau kāvyaśaya sāṅkṣēptikṛpaṇam pratibhopakāriṇau tu bhavataḥ. dr̥ṣyete hi pratibhāsiyasya viphalaū vyutpattyabhyāsau.

—*Kāvyānuçāsana*, KM., pp. 4-5.

² Drṣṭopādhinibandhanatvāt tu aupādhikityucyate.—*Loc. cit.*.

³ Vyutpattyabhyāsasāṃskṛtā pratibhāsyā hetuḥ.

—*Kāvyānuçāsana*, KM., p. 2.

⁴ Pratibhā kāraṇam tasya vyutpattistu vibhūṣaṇam !

Bhṛgotpattikr̥dabhyaśa ityādyakavīsamkathā ||

—*Vāgbhaṭālamkāra*, I. 8, KM., p. 5.

earth and nourished by water.¹ It appears *prima facie* from the illustration that genius is held to be the cause of the real excellence of poetry, and culture and practice, the stimulating causes, or in other words, the favourable circumstances of such birth of poetry.

It will not take us far too afield if a reference is made to another view as to the outturn of poetry. In the tenth chapter of *Kāvyamīmāṃsā*, under the title of 'Kavīcaryā' and 'Rājācaryā,' we, however, find quite a different but rather somewhat queer view as to the cause leading to the production of poetry. Rājagekhara, who has elbowed out his place in the history of Alauḍhā Literature more for his idiosyncratic peculiarities than for anything else, has made mention of a stanza where he enumerates some eight factors, namely, health, fancy, practice, devotion, words of the learned, profound scholarship, strong memory, and self-reliance, that make up the source of poetry.² Of these eight, however, some are to be taken as ordinary, others as extraordinary. But it must be, undeniably, admitted that such a determination of the cause of the creation of poetry on so whimsical a line, at once appears defective from the above points of view, discussed elaborately, and hence cannot have the approval of a man of common sense, not to speak of one having a scientifically trained mind.

So long in our aforesaid lengthy discussion, we have seen that a man to become a poet must have, first of all, the most essential requisite, namely, poetic imagination, besides other secondary qualifications which also are of considerable importance no doubt. Can a man to whom Fate hopelessly denies

¹ Pratibhāiva ḡrutābhyaśasahitā kavitāṇ prati |
Heturmr̥dambusambaddhā bijamālā latāmiva ||

—Candrāloka, I.6, KSS., p. 4.

² Svāsthyam pratibhābhyaśo bhaktirvidvatkathā bahuṛutatā |
Smṛtidārḍhyamanirvedaçca mātarostau kavītasya ||

—Kāvyamīmāṃsā, GOS., p. 49.

poetic genius ever struggle successfully to be a poet? Notwithstanding the fact that inborn genius is not certainly capable of being attained by the efforts of men, however much they try, it is nevertheless maintained that the art of making poetry is not always impracticable in every case. Instances are not rare in the life of humanity to illustrate the dictum.

The word 'dhruva' in Daṇḍin (Kāvyādarṣa I, 104) may be interpreted to signify a universal predication with no possible exception. In the cases of lives of poets like Kālidāsa¹ and others, even though they were found to have no so-called innate genius (*prāktanapratibhā*) they got thorough mastery over the art of poetry only through the serving of the Goddess of Learning. So also other men of sheer industry and perseverance can be poets. Hence men must surely put forth earnest and persistent exertions. So the view—which establishes the fruitlessness of attempts on the part of those pessimists who are void of actions, and who take their stand on such idle and silly analogies as the uselessness of oblations on a heap of ashes, of the rain on the deserts, of the song to one who has a defective organ of hearing and of the instructions to the dullards,² and that the heron unlike the parrot can never be taught, thousands of efforts for the purpose are made even though—is thus set aside. Certainly try a man must, so that his efforts would surely be crowned with success. And what impels one to such an endeavour? Evidently fame serves as the beacon light. Fame, which, as Keats says, is the food that dead men eat, turns many a wise head and under its magic spell many try their hands at verse-composition. Such attempts one must acknowledge as honest and an end in themselves. In poetic creation,

¹ Cf. Devatāparitoṣauṣadhbhādhetukā kālidāśdināmivaupādhikī (pratibhā).

—Alamkāratilaka, KM, p. 2.

² Ayam bhasmani homaḥ syādiyam vṛṣṭirmarusthale |
Idamaçravane gānaṇ ya jaḍe qāṣṭraqikṣapam ||

—Quoted by S. K. Belvalkar in his Ed.² of Kāvyādarṣa, p. 113.

indefatigable diligence is in request, while the untarnished and eternal fame of the great poets like Vālmīki, Vyāsa and others of hallowed memory will serve as the cynosure.¹ Namisādhu, the Jain commentator on Rudrāta, quotes a stanza which says that, as in this evanescent existence, everything else other than poetry perishes, so the great have introduced the art of writing poetry for standing fame alone.²

Danḍin seems to have given a special stress on the leading factor, *viz.*, the poet's imagination. A man without the original endowment of the gift of genius, who can compose a stanza or two in a long course of time, cannot certainly have the appellation of a poet. So he uses, while determining the real source of true and genuine poetry, the word *kāvyasampadah* (of the excellence of poetry), in clear contra-distinction to *kāvya* which means nothing more, of course, than 'of poetry' merely. There is a fine couplet in *Kāvyamimāṃśū*,³ which has created a gradation in the realm of poetry, so to say, and which rightly characterises the authors of the real wealth of poetry (*kāvya-sampadah*) as unusually rare. In composing *muktakas*,⁴ there

¹ Tadalamamalap kartup kāvyap yaeta samahito
jagati sakale vyāsādināp vilokya paraip yaçah ||

—Rudrāta's *Kavyālaṃkāra*, I 22, KM., p. 8

² Yataḥ kṣapadhvapsini sambhave'smin kāvyadṛte'nyat kṣayameti sarvam |
Ato mahadbhīryaqase sthīrāya pravartitah kāvyakathāprasangah ||

—Quoted by Namisādhu in his Com. on *Kavyālaṃkāra*, p. 8.

³ Muktake kavayo'nantih saṅghāte kāvyaḥ qatam |
Mahāprasbandhe tu kavireko dvau durlabhastrayah ||

—Kāvyamimāṃśā, GOS., p. 54.

⁴ Muktaka is a single stanza complete in itself. The stanzas of Amaruçatēka are instances of muktaka. In the Agnipurāpa, it is thus defined—

Muktakah çloka evaṅkaçcamatkāraṅkṣamah satām. —387

—Trivedi in his notes on Pratāparudrayaçobhūṣṇa under 'Kāvyaśrakara'.
BS8. p. 22.

are endless poets, there is a hundred in *sāṅghātas*,¹ but in the composition of a *mahāprabandha*, i.e., what is called 'great work,' there is found a poet or two : rarely do we find three in number.

Aristotle, who may be looked upon as the father of Poetics in the West, traces the origin of poetry to two sources—'the instinct of imitation' and 'the instinct for harmony and rhythm.'² Persons, he postulates, 'starting with this natural gift develop by degrees their special aptitudes, till their rude improvisations give birth to poetry.' Butcher in his preface to the first edition and in his essay II, makes the position of Aristotle clear, by explaining the term 'imitation' as used by him. The word 'imitation' should not, however, be taken to mean a servile facsimile of the world of reality, 'a want of creative freedom.' Aristotle frees it from disparaging associations that clustered round the use of the word by Plato. The word in Aristotle means the imitation of the ideal, the transcript of the universal vision. What we are directly concerned with in Aristotle is whether he associates any element of culture and practice with the origin of poetry. The two fountain-heads of poetry adduced by him, are spoken of as instincts, and instincts, we know, are connate tendencies. Again he regards them as natural gifts or special aptitudes to distinguish them from what are acquired or commonplace. The person, instinct with these gifts, develops or grows and Aristotle may implicitly suggest culture or practice as an impetus to such growth, but we shall grossly err if we take him to associate any idea of poetic parentage with either culture or practice.

Let us attempt a synopsis of ideas about the requisites of a poet viewed from the angle of vision of the Sanskrit poeticians. The group of Sanskrit rhetoricians may happily be divided into

¹ Yatra kavirekamartham vṛttensikena varṇayati kāvye !
Sāṅghātak sa nigadito vṛndāvanameghadūtādīḥ ||

Sāṅghātak is what may be called 'Longer Poems' dealing with a theme of the poet's own invention. —Belvalkar.

² Aristotle's Poetics, IV, Butcher's Ed., p. 15 f.

two schools of thought—one old, the other new. Dandin who is at once the pioneer and one of the most erudite of his brother rhetoricians, holds that genius, culture and practice blend harmoniously and the progeny of such co-mixture is poetry. It is not, however, transparently clear if he consciously lays any special emphasis on genius inborn or gifted. Rājaçekhara, who demands our attention by his quaint and queer ideas and who belongs at least by tendencies to the old school, if not chronologically, maintains that only *çakti* born of meditation and practice engenders poetry. With him, *çakti* is also however the common mother of poetry, as well as genius and culture. The new school is conspicuous by its departure from the dicta of the old without total antagonism against it. The marked difference between the two shows itself in the opinion of Jagannātha, last but not least of the gifted rhetoricians of the new school. He attributes genius as the solitary and self-sufficient source of poetry. Another outstanding figure of the same school is Mammata, who has followed Dandin and harped on the same chord with this apparent difference that he has denominated the *pratibhā* of Dandin as *çakti*.

Setting all the scholarly controversies at rest about the essentials that go to the making of a poet, which are in every age an apple of discord among the literary critics who fight, as Dr. Johnson says, 'for fancied ills and airy good,' we can hardly escape the inevitable conclusion that genius above all is the sole ingredient of poetry. The term, however, is as elusive for our attempt to define it as the man endowed with it baffles human standards to gauge him. It goes without saying that genius is never absolute. All excellences are comparative. Genius is excellence of an unusual degree. Man is, however, often mistaken in according the right place to the right thing. Ben Jonson was pronounced to be the subtlest genius by his time, Wycherly had as much reputation as Dryden himself, Byron in verse-tales had practically eclipsed Scott and the latter wisely withdrew himself from the field. But time, the unmistakable

connoisseur, has revealed otherwise. It does not prove, of course, that the above once honoured poets duped their respective ages and reaped renown by jugglery. Quite the contrary. They had that genius, and genius certainly of shrewd perception of the subjects in which their respective ages were interested and consequent treatment of such themes in their works. Nor will it avail saying that they had no genius but the semblance of it, because even they had something in them which all aspire to but few achieve, which is genius. The question now arises—what distinguishes Kālidāsa from Bhavabhūti or Shakespeare from Ben Jonson and each from the common man? Is Kālidāsa or Shakespeare ‘of the same metal made’ varying only in degree or is there in each a faculty unmet anywhere? Are we, in other words, to presume, that what Kālidāsa or Shakespeare achieved with ease, could be achieved by another with greater diligence and wider studies or that each was destined to surprise the world by his unfathomable wisdom and unchallenged dramatic skill? To answer this, reference must be made to the distinction that Walter Pater¹ has justly drawn between ‘good art’ and ‘great art.’

Good art is characterised by an integrity of interest and roundedness in execution. It is permeated by a sense of unity and a logical sequence of ideas which give the work an artistic finish and musical effect. This is due to the presence of what is called ‘mind in style’ which foresees the end in the beginning and weaves the apparently heterogeneous elements into a homogeneity. Great art is good art and something more. The appeal of the great art is more in subject-matter than in its presentation. The great artist combines in him all that a good artist possesses with an ‘experiencing nature’ which unfolds more meaning than ordinary brain is capable of, feels the pulsation of the universe, and twists language to his own peculiar purpose. To him the human heart with its intricate ways and bye-ways unlocks itself, the world opens up its dark

¹ *Appreciations, Dissertation on Style.*

devious mysteries. He is, to use a phrase of Shakespeare, a God's spy on earth. His appeal is, therefore, to what stirs the human race to thought and action, to what moves mankind to love and compassion, in a word, to the universal man.

What Kālidāsa or Shakespeare creates is great art. Lesser geniuses can at best hope to create good art. They can by culture and practice, purge much of the dross away. They can improve, can better themselves, can grow. But the barrier that separates them from the greatest geniuses is impassable by them, howsoever they may act up to that effect. The case with the man of the common run is still worse. He may luxuriously, even profitably, employ his hours in composing poems or dramas but the hope to attain the height of a master mind is as ludicrous in his case as the pygmy's vain endeavour to become a giant. Nature belies it. His compositions can pass under the name of verses or poems but fall far short of poetry which is the effusion of a full heart which must unload itself in prophetic numbers or it will burst. It has never been, nor will ever be effected by a mechanical discipline or poetic education as some of the bigoted Sanskrit rhetoricians advocate. Men have never been tutored into poets by poeticians whose works are merely cautious generalisations from theirs. Were it so, why has there been no other Shakespeare on the English soil for all the alluring fame of his lofty heights or no other Kālidāsa in India for all his enticing renown? It does not follow, therefore, that genius needs no practice, no culture, that he need not pause, write, erase, rewrite, correct, amend, and finish. These he does, not in his attempt to create, but to excel, to refine, to improve and embellish. He handles his subjects with as much sedulous care as anyone else; only that what he accomplishes others merely fancy, what he intuitively presents others vainly waste hours to portray. Herein is the difference between the work of a poet and a poetaster, between a spontaneous verse and a studied verse, between a poem and poetry. Let us repeat '*Poeta nascitur, non fit*'—poets are born, not made.

Philological Notes

By

VIDHUSHEKHARA BHATTACHARYA

Hañ ho, Hambho, Ambho

In classical Sanskrit we have a word *hañ ho*. Its use is to be found also in Pkt. (Hemacandra, 2.227). It is used as a vocative particle corresponding to 'ho !' 'hallo !'¹ For example, *hañ ho brāhmaṇa* 'Hallo Brahmin !' Undoubtedly this *hañ ho* is from *hañ bho* (*h*<*s*) employed in the same sense, *bh* of *bho* being changed to *h* as in Prakrit, and also in Sanskrit, owing to Prakritism, as from the original Vedic *grahb* 'to take' we have *grah*. This *hañ* (or *ham*) *bho(h)* is found not only in Skt. or Buddhist Skt. (*Divyāvadāna*, 383.4, 621.26; *Mahāvastu*, III. 204.16, 215.1), but also in Pkt. (*Surasundarīcariā*, Benares, XI. 234), and in Pali (*Jātaka*, I. 184, 495). In Pali we find also *ambho* in the same sense (*Jātaka*, II. 3), the aspiration of *h* being lost. Now this *ham bho* is in its turn derived from *aham bhoḥ* in Skt. This phrase is used to draw one's attention, as in the *Abhijñānaśakuntala* ed. Pischel, IV. 0.20, Durvāsas presents himself in the hermitage addressing Sakuntalā : *ayam aham bhoḥ* 'Hallo, here I am !' In *ham ho*, etc., *ham* is from *aham* the initial *a* being elided, as we have *dhi* from *adhi*, *pi* from *api*, *va* from *ava*, etc., in Skt., and *va* from *iva*, *pi* or *vi* from *api* in Pali or Pkt.

Hañje

In Sanskrit dramas in Prakrit portions we often come across a word *hañje* as a vocative particle used in addressing a female servant. What does it really mean ? Some of our

¹ According to the *Sāhityadarpana*, VI. 148, equals are addressed with the word by middle-class men.

lexicographers say that *hañjā* is a word which means a *kanyā* 'girl.' And from it in the vocative case the form is *hañje*. This meaning is supported from the Tibetan sources, as in the Tibetan version of the *Nāgānanda* (*Klu kun tu dgah ba*), a drama attributed to Śrīharṣa, *hañje* is translated (Tanjur, Mdo, khe, fols. 269^b. 1, 270^a.5, etc.) by *bu mo* which in Sanskrit means *kanyā*, or strictly in this vocative case *kanye*. But this translation has not its independent value, for the Tibetan translators simply follow Sanskrit as strictly as possible, and do not take any other thing into consideration. However, according to these lexicographers *hañje* is the vocative case of *hañjā*. It is evident that being unable to account for *hañje* they were led to conceive a word *hañjā* on which is based another word *kañjikā* in the same sense. But the fact is not so. Let us therefore try to find out an explanation, if possible.

The word *hañje* is composed of two different words, *ham* and *je*. Here *ham* is from *aham* as we have already seen ; and *je* is a particle. The use of *je* is found both in Pali and Prakrit. But what does it mean ? Hemacandra says in his Prakrit grammar (2. 217) that it is used simply for filling up a verse (*pādapūrāṇa*). Trivikrama (II. 1. 76) with Subhacandra (II. 1. 77) only repeats it. But originally it must have had a definite meaning which seems to have been forgotten even in Hemacandra's time. What is it then ?

We read the word in Pali in such sentences as the following : *he je Kālī* (*Majjhima Nikāya*, I. 126) 'Hallo Kālī (a maid-servant) !' *kim je divā utthāsi* (*loc. cit.*) 'Hallo ! why do you get up when it is a day !' (meaning hereby that she should have got up early in the morning) ; *bho je tvam anekavāram mama santikam āgatā* (*Dhammapada Atthakathā*, IV. 105) 'Hallo ! you came to me more than once' (this is said to a maid-servant) ; Visākhā gives command to her maid-servant (*Vinaya Piṭaka*, I. 292) : *gaccha je ārāmam* 'Hallo ! go to the pleasure-garden.' See also *Vimānavatthu Atthakathā*, p. 187 (*sa ce je vihāre ṭhapetvā vissaritam*). It is thus clear from the

Pāli sources that *je* is not in fact simply for *pādapūrāṇa* as say Hemacandra and other Prakrit grammarians, for it is used in the above cases in prose. Hemacandra's own example seems to be also in prose (2. 217). Is it then *padapūrāṇa* 'completing a word' (enclitic) and not *pādapūrāṇa* ?

In Pkt. (Māharāṣṭrī, Ardha-Māgadī, and Jaina-Māharāṣṭrī) we have the use of one *je* (which becomes *ji* in Apabhramśa, Hem., 4. 220); but it has no connection whatsoever with *je* we are discussing; for the former is originally from Skt. *eva* 'indeed,' etc., and is always employed in that sense. See Pischel, §§ 150, 336.

As we have seen above, it is clear from Pali that the particle *je* is used in the sense of courteous or polite address or politely drawing one's attention. It is employed in addressing a maid-servant. Thus *ham* from *aham* as explained before together with *je* forms the word *hañje*.

We have, however, not yet got into the real significance of the word *je*. In Sanskrit and specially in dramas a boy is affectionately addressed with the word *jāta* (Pkt. *jāda*, *jāa*) and a girl with *jāte* (Pkt. *jāde*, *jāe*). It has become there a term of endearment. As for example, in the *Uttararāmacarita*, IV, Kauśalyā says to Lava : *ayi jāta kathayitavyam kathaya* 'O my darling, say what should be said ;' in the *Abhijñānaśakuntala*, IV. 8. 3, Gautamī says to Sakuntalā (in Pkt.) : *jāde eso de° guru uvatthido*² 'O my darling, here is present your *guru*.' The intervocal *t* being dropped this *jāte* (Pkt. *jāde*) becomes *jāe* and assumes the form *je*, the vowels *a* and *e* being changed into *e*.

In Bengali a darling or beloved boy is often called *jādu* or *jādu-mani* (the word *mani* literally means a 'gem,' but here it implies 'endearment'). This *jādu* is undoubtedly from *jāta*, Pkt. *jāda*.

² See also IV. 6, 20, 9, 2. Pischel selects the reading *jāda* for *jāde*, but on what grounds I do not know.

The question naturally arises as to why *jāta* and *jātā* mean a ‘boy’ and a ‘girl’ respectively. The reply is this: In Skt. father is called *janaka* and mother *jananī* both meaning ‘one who gives birth’ from \checkmark *jan* ‘to be born.’ So it is quite natural that a son or a girl born from them should be called *jāta* and *jātā* respectively.

This *je* as explained above is used also in Marāṭhī as a particle of reverential address; e.g., *je devā*. See Molesworth’s *Dictionary, Marāṭhī and English*.

The word *je* in the form of *jī* as a respectful term corresponding to ‘sir’ or ‘madam,’ or simply as an honorific particle or enclitic is also found in other Indo-Aryan vernaculars; e.g., in Hindi; *karo jī* ‘please do;’ *tum vahā gae the yā nahī*? *haz̄ jī* (or *jī haz̄*) ‘Did you go there or not?’ ‘Yes, sir;’ in Gujarāti: *māre māte pustak lāvśo jī* ‘Please bring for me a book.’

Ge, He ge

In Magahi as well as in Bengali as spoken in the extreme north-west part of Bengal, that is, in the dialect of the district of Malda, a vocative particle, *ge*, is used in addressing a female; e.g., *ki ge* ‘Hallo! what is it?’ Often *he* is put before it, as *he ge*. Now this *ge* seems to have been derived from *je* we have discussed above. It is a fact that *j* and *g* are interchangeable; e.g., from \checkmark *gam* ‘to go’ we have *jagāma* ‘went’; and from \checkmark *ji* ‘to win’ *jigīṣā* ‘desire to win.’ See Pischel, § 234.

De, He de

In Pkt. there is a particle *de* (Hemacandra, 2.192; Siṃha-rāja, XIII. 23; Trivikrama, II. 1. 59; Subhacandra, II. I. 61). It is said that it is used for drawing one’s attention (*sammukhi-karana*). Gadādhara bhāṭṭa says in his *Tikā* on Hāla’s *Sattasaī* (16, 48) that it is used in addressing one courteously or politely (*sānunaya-sambodhane*), or (345) simply in addressing one (*sambodhane*). In Pkt. it is not mentioned, nor is it seen that it is to be used with reference only to a female.

This *de* is from *je* discussed above, *j* being changed into *d* as in the following cases : Skt. *Prasenajit*, Pali *Pasenadi*; Skt. *jighatsā*, Pali *dīghacchā*; Skt. *jāvalyate*, Pali *dādullate*; Skt. *jyotsnā*, Pali *dosinā*. Again, Skt. *jihṛā*, Simhalī *diva*; Skt. *tejas*, Simhalī *teda*.

In Bengali *de* with *he* before it is used as *he de*; e.g., *he de hābhātir jhī* ‘Hallo, the daughter of a woman begging for bread !’ In the following sentence it is used with reference to a male : *he de o nāgaravāsi* ‘ O the inhabitant of the town.’

Hañde, Te

The cerebralization of *d* is found quite frequently in Pkt. and Indo-Aryan vernaculars; e.g., Skt. *dañśa*, Pkt. *dañsa*, Bengali *dæś*. According to this rule *de* becomes *de*. Now just like *hañje* with *hañ* from *aham* before this *de* we have *hañde* which is used exactly in the sense of *hañje*. Our lexicographers have, however, a word *hañdā* the vocative case of which is *hañde*.

Now *de* being voiceless becomes *te*, and as such is used just in the meaning of *je* in addressing a female, and this is found in Bengali in the districts of Burdwan, Birbhum, Murshidabad, and Malda; e.g., *cal te jāi* ‘Hallo ! let us go;’ *ki te* ‘ Hallo ! what is it?’



PRIMITIVE RELIGION, SOCIAL ORGANISATION, LAW AND GOVERNMENT AMONGST THE SANTALS

BY

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CHAPTER I

SANTAL RELIGION.

The proper analysis of the religion of the Santals is as difficult as necessary for the history of succession of religious ideas in India and perhaps in the whole world. If there is any culture which still carries on the impress of the underlying philosophic speculation and order of thought that was widespread in India prior to the rise of the Dravidian culture, it was very likely the belief and social order of the Pre-Dravidian Santals. The Santals lying on the very tract of the Aryan, over-flooding Northern India (in fact very near the sacred triangular spot between Benares, Rajgir and Gaya, which witnessed the phenomenal Upanishadic speculation of the days of Janak and the rise of Jainism and Buddhism), could not but have been influenced by these and in their turn must have considerably left their mark on the folk-culture of Northern India. So in the pre-Aryan and pre-Dravidian culture of India, the Santals rather than the Mundas or Hos of Chota-Nagpur stand in the limelight. Similarly, their contact with Dravidian culture, which at one time was not at all confined to Southern India, is well proved from their neighbours, the Malers, who in language along with the Chota-Nagpur Oraons speak a Dravidian tongue.

In the study of the hypothetical development of religious ideas, the Santals figure prominently in the scheme of evolution. Thus Clodd cites them as an example of beliefs preceding animism. He says :

' This is very interesting considering the sway of the idea of impersonal universal spirit or *mana* so widely prevalent amongst the Austric-speaking people of which the Santals are a western peripheral branch. It is a subject for future enquiry, whether there had been any influence of Vedic or Upanishadic speculations of the universal supreme energy carried by these people in the migration eastward. There is a calling back of the shade of the departed common amongst these pre-Dravidian tribes of Chōṭā-Nāgpur which recalls the Vedic passages (Rigveda, Mandal 10). '

The enquiries of Pater W. Schmidt, probably inspired by the subconscious Christian idea of an early revelation to primitive man of the idea of a supreme personal god, have led to the finding of many instances of the primitive high-god in the first cultural strata of food-gatherers. The Santals fall in the category of the primary or secondary cultural strata in the scheme of Pater Schmidt. The idea of a supreme being or a personal high-god is well known amongst the primitive tribes of Central Provinces, Chota-Nagpur and Assam. Thus according to Dalton, he is called *Bero* by the Kharias, *Ote Boram* or *Sing Bonga* by the Hos, *Dula Deb* or *Pharsi Pen* by the Gonds, *Bura Penu* or *Bela Penu* by the Khonds. In Assam, he is known as the Father by the Abors, as old bearded Rishi *Salgong* residing in heaven by the Garos, as the creator *Pa-thian* amongst the Kukis and the great god *Arnam Kethe* amongst the Mikirs. The enquiries of Sir James Frazer in his "*Worship of Nature*" have led him to cite most of the Chota-Nagpur tribes as devotees of the Sun god as the supreme being. Rai Bahadur S. C. Roy thus has analysed the *Dharmes* or *Biri Bela* of the Oraons as Sun god. Similarly, according to him, the *Ber Pitia* or *Ber*

Chichha of the Malers is the Sun god and so also is the *Bhagavan* of the Korwas. The *Bura Penu* of the Khonds is also the God of light.

Coming now to the Santals we find almost all the authorities agreeing in conceding to them the idea of a supreme being. But there is a great diversity of opinion as to what he is called. According to Dalton (p. 213), he is *Sing Bonga* amongst the Santals of Chota-Nagpur. Risley (Appendix VII, p. 446, *People of India*), on the authority of Skrefsfurd, says that the supreme deity is called *Thakur*. E. G. Man, working in Orissa about fifty years ago, gives (*Santhal and Santhalia*, Chapter VI) the name of the supreme being of the Santals as *Chando* or *Chando Bonga*. Bompass (p. 402, *Folklore of the Santal Parganas*) in one of his folklores describes that *Thakur Baba* had made everything very convenient for mankind, etc. Rev. Bödding, who is the most recent and exhaustive worker on Santal beliefs and customs specially in the Mohulpaharia area in Santal Parganas, gives the name as *Cando*, 'the creator, the only one who gives and restores life' (*Studies in Santal Medicine and Connected Folklore*). Bödding further says that this name is often confounded with Cando the Sun. My own personal enquiries in the villages in Katikund within Dumka Damin and in the village on the base of the Zalway Hill, in Deoghar Sub-division, in the year 1932, elicited the information that the general name for God is *Kando* and the name for the Sun in that area is *Sin Kando* and for the moon is *Ninda Kando*.

The Santal lives in harmony with the surroundings, having no temple and stooping to no idol made by his hand for the purpose of worship. It may be said as a child of nature living in rapport with all its surroundings, the hill, the dale, the spring or the grove are the objects of his reverential fear. They are the abodes of a supreme supernatural energy or the departmental spirits or the *bongas*. The *bongas* are friendly beings at times, but most often mischievous and naughty elves playing mischievous pranks with men, bringing them trouble and causing misery

at times. These *bongas* are supposed at times to harass humanity, to eat people (as the Santals express it) because they are hungry, displeased, hurt or envious, and this eating is the devouring of health and substance of the person exposed to the displeasure of the spirits. These spirits may further be used by, or themselves use, the witches as medium.

Thus in religion proper the main attitude of Santal society, towards the supernatural, is one of reverential fear in the presence of certain mysterious supernatural powers and beings and dependence on and propitiation to and prayerful submission to them, and the result expected is the averting of the ill-will and securing the good-will of the supernatural beings and good luck to man in crops and cattle, health and progeny.

The Santal religion is also not a little concerned with ancestral and certain other disembodied souls and Nature-spirits and deities. The rites employed to establish relations with them are mainly supplications and prayers, offerings of sacrifices and the ceremonial sharing of sacrificial food besides certain special observances and taboos.

The Santals believe that the supernatural influence is not often inimical and evil. Their idea is that there is no possibility of malevolent influence being turned to a benevolent or good one, the only practical question for them is how to stop it and, in the case of witches, how to stop and punish it. *Bongas* and witches know how to do evil to people but more often than not also how to do them good.

The Santal religion in its social aspect is essentially a tribal matter and has helped to strengthen the social unity and quickened the sense of social responsibility and his concept of righteousness is bound up with his social or tribal consciousness. As the Santal society has not yet got much beyond a limited tribal consciousness, his conception of righteousness is not concerned with the essential or absolute standard of rightness of things.

One of the aspects of Santal religion which could be more observed to-day in the social side rather than any religious belief

and ceremonial, is the definite association of some of the exogamous clans and sub-clans with names of plants, trees and some animals, generally termed as totemism. Thus of the total of twelve clans nine are totemic and of the seventy-four sub-clans twenty-two are totemic, which are as follows :—

| Clans. | Totems. | Clans. | Totems. |
|-------------------|---------------------------------|------------|--|
| Besra | Hawk | Hasdak | Wild-goose |
| Hembram | Betel-palm | Marndi | Grass |
| Murmu | Nilgai | Saren | Constellation Pleiades |
| Pauria | Pigeon | Chore | Lizard |
| Beda | Sheep | | |
| | | | |
| Sub-clans. | Totems. | Sub-clans. | Totems. |
| Kahu | Crow | Kura | Buffalo |
| Chilbindha | Eagle-slayer | Jihu | Bird |
| Gua | Areca-nut | Kachua | Tortoise |
| Nag | Cobra | Somal | Deer |
| Buru-birit | Hill | Kekra | Crab |
| Roht | Panjaun tree | Boar | Fish |
| Ganr | Fort | Handi | Earthen-vessel |
| Sikiya | Chain | Barchi | Spear-men |
| Mundu or Badar | Dense Jungle | Sidup | Bundle of Straw |
| Agaria | Charcoal-burner | Dantela | Breed pigs with large tusks for sacrificial pur- poses. |
| Lat | Bake meat in a leaf platter. | | |
| Roh-Lutur | Ear-pierced | | |

None of these appear to be associated with the idea of culture heroes as amongst the Amerindians. The folk-lore shows indeed some stories centering round the plants (betel-palm, Panjaun tree, Sabai grass) and animals (tiger, jackal, leopard, crab). Besides these some of the clans' names centre round industrial objects and articles of usefulness such as chain, Earthen vessel, etc. These would be more in line with a belief in objects possessing *mana* and venerated as such and gradually getting associated with exogamous sub-divisions who might have had a hand in the invention or diffusion of those useful objects. There is no seasonal recurring ceremonial round these objects meant for the preservation or propagation of the animals or plants venerated as ancestors as in Australia. There is indeed some taboo to the use by the particular sub-clan of the plant and animal venerated as its ancestor. The animal and plant thus venerated are taboo to the clans ; none can hunt it, nor can they partake of its flesh. But for the observation of this taboo the Santals are in no sense plant and animal worshippers. It seems that their idea of *bongas* inhabiting all creeks and corners of nature, have been extended only to the region of certain animals and plants. In the folklore the *bongas* are generally represented as using seats of hooded cobra and certain serpents are naturally venerated as clan-ancestors ; on the other hand, the common water-snake (*Dhamna*) is eaten by almost all the Santals. Of the animals not eaten by the Santals all are not associated with clan-names such as the Frog, Gibbon, Elephant, Dog, etc.

If the religion of the Santals may thus be described as veneration of a Supreme Being and reverential awe or fear of certain good or evil spirits surrounding him, his practical life may be said to centre round certain other pseudo-scientific or magical rites and ceremonies. He is constantly trying to dodge, control or press into service the innumerable mischievous spirits (*bongas*, etc.) and forces (*tejo*, etc.) that bring all the misery and disaster in life.

Thus in magic the attitude of the Santal is mainly one of defiance of control and domination over unseen mysterious powers and the result intended is the expulsion of evil or compulsion of natural or supernatural forces and powers in the production of desired favourable conditions or results. The Santal magic referred to above, is primarily concerned with mysterious impersonal forces and powers residing mostly in natural or artificial objects and the instruments employed in dealing with them are principally charms and spells, adjurations and incantations as also certain traditional observances and taboos.

As has been beautifully and lucidly explained by Mr. Roy in the case of the Oraons, the Santal attitude to religion and magic is not mutually exclusive but complementary and supplementary. His magical practices are the result or part of his science and constitute his applied pseudo-science. They never crowd out those simple religious rites of veneration to and propitiation of the mysterious author of our being. But whereas in daily affairs of life of the civilized man the scientific physician is at hand, the Santal, like other primitive people, has recourse to his Medicine-man and Bonga-doctor. These latter come with their knowledge of herbs as well as the mysterious processes of evil caused by malevolent natural or human agencies and profess to cure the Santal of his daily ailments and afflictions. Thus the magic ritualism is the speciality of Santal society and centre of the individual's life, whereas the religious ceremonials are more or less communal group affairs. The complicated cross section of the Santal belief would be well studied in the functional differentiation of the communal priest, the *Ato naeke*, his assistant, *Kudam naeke*, and *Dehri* (hunt-priest), the herbalist medicine-man, the Bonga-doctor or *Ojha* and the witch-detector or *Jan-guru*.

DIFFERENT TYPES OF RELIGIOUS FUNCTIONARIES, MEDICINE-MEN, ETC.

Amongst the Santals working in the Daminiko area where they are closely concentrated, it was curious to notice many

functionaries named as *Ojha*, *Jānguru*, *Kāmruguru*, *Rārānic*, *Ato-Naike*, *Kudam-Naike* and *Dehri*. The Santal carefully draws a distinction between the officers of his social ceremonials, the high priests of the community and the specialists who may be described in modern terms as the practising physicians and the mental disease experts, the last of course not being psychopathists but masters of spiritualist seances. The sorcerer who practises evil eye and witchcraft is also sharply distinguished.

Studying the other allied tribes near by we find mostly a distinction between the social functionary in charge of religious festivals sharply distinguished from the spirit-doctor generally possessing second sight. The term for the priest is *Nāyā* amongst the Birhors and *Pāhan* amongst the Mundas and Oraons. The word *Nāyā* as also *Naike* may have some connection with the Hindi word *Nāyak* or leader, a term often used in the old Hindu army for lieutenants. Mr. Roy shows the Birhor Naya in a plate as *Rājā* or chief,¹ similarly, the word *Pahan* may be equated with Hindi *Pradhan* or chief. These indicate the power of the religious functionary in the state. It cannot be said, at least from the study of the Chota-Nagpur tribes as well as those of Assam, that the medicine-man developed into the king, for in both the areas we find the temporal chief superior in authority to the ecclesiastic functionary. But the terms themselves show that the religious functionary is given a considerable recognition in temporal status. It is possible Hindu missionaries in bygone days might have exercised temporal and spiritual authority from which these tribes again recovered, re-establishing their own indigenous superiority of their secular chief or headman.

The term for the spirit-doctor with second sight is *Mati* with most of the primitive tribes of Chota-Nagpur. The Mundas, the Birhors and the Oraons all call their spirit-doctor *Mati*, the Hos of Seraikella call him *Ojha*.² The Santal term *Ojha*

¹ S. C. Roy's The Birhors, p. 340, Plate XXVIII.

² A. Chatterjee and T. Das, Hos of Seraikella, Part I, p. 28.

has rightly been objected to by Rev. P.O. Bödding as a Hindi loan word derived from *Upadhyaya*.¹ But we think he goes too far when he says that the whole system of Ojhaism is derived from the Hindus. Similar practices in Hindu society may be sometimes detected in the lowest strata and also under even the mystic Tantric ritual. They have been always branded in Hindu scriptures as practices of the lowest order, a sort of getting power over *ghosts*, *pisâches* and *bhuts*. The Gita² calls the worshippers of the *prâts* and *bhuts* as *tâmasic*. Thus they are to be looked upon as survival of a *pre-Dravidian* stage of culture in Hindu Society. From the widespread occurrence of the word *Mati* it would seem that the Santals have lost their own original term and adopted a Hindi loan word as they possibly did in the case of the word for the supreme being, *Thâkur*. The tendency to change the name can be traced amongst the Oraons due to a recent semi-Hindu and semi-aboriginal religious revival movement known as the *Bhagat*, comparable to the similar Kharwar movement amongst the Santals. The *Mati* is called *Bhagat* as the most dignified term for a Baiṣṇab devotee. A change of outlook has also taken place in making the spirits no longer malevolent and the aspect of mercy and grace under Baiṣṇab influence have been emphasised, comparable to the changing of many of the pagan gods of Europe into Roman Catholic patron saints.

Hunting being one of the most absorbing occupation of all these tribes a special functionary for hunting occasions is quite natural. Amongst the Santals the *Dehri* still maintains his own ; amongst the Birhors the *Diguâr* or *Kotowâr* has sunk to the position of an assistant to the priest *Nâyâ*.

¹ Rev. P. O. Bödding, Studies in Santal Disease and Connected Folklore, Part I.

² Chapter 17, Verse No. 4 :

(a) *Raranic or Herb-Doctor.*

In his individual ailments the Santal recognises the disease to be due to either of the three causes as mentioned by Dr. Clements,¹ such as :—

1. Natural causes,
2. Human agencies,
3. Supernatural agencies.

Naturally different functionaries are called upon to remedy the different items.

The man called upon to treat the diseases due to natural causes is the *Raranic* who comes nearest to our modern practising physician. He is a master of many herbs and simples. Like the modern physician he has faith in his drugs and herbs and looks askance on the practices of the spirit doctor or *Ojha* and his hocus-pocus. He learns his trade as an apprentice to an old practising *Raranic* who jealously guards the secrets of his herbs and prescriptions. They say that their knowledge is derived mostly by observation of animals attacked with disease and the way these cure themselves. He follows the diseased animal in the jungle and marks the herbs or roots. From the encyclopaedic list of prescriptions collected by Rev. P. O. Bödding and Mrs. Bödding, M.B., one would infer that the Santal medical treatment has not been entirely conservative. There are indeed several items which could be taken as survival of primitive prescriptions such as the use of animal refuse or insect preparation, reminding us of the cauldron of Macbeth's witches. But the majority comprises of herbs and sometimes also minerals, leading one to suspect strongly the influence of Hindu indigeneous Kaviraji treatment which had been universally adopted (ancient Hindu medicinal treatises having been translated into Arabic and

¹ Forrest E. Clement's Primitive Concepts of Disease, University of California Publications in American Archaeology and Ethnology, p. 186, Volume 82, No. 2, pp. 185, 252, year 1932.

passed through it into mediaeval European pharmacopœia). Thus for instance the use of *Rasa-Sindur* is distinctly Hindu, the word *Rasa* being the old Hindu word for a form of preparation of mercury. Similarly, some names such as *Kababchini* or tobacco-water show post-Mahomedan adoption.

It may be mentioned here that there is a seasonal ceremonial called *Ranjagao* for the vitalising or blessing of medicinal plants in general, at the time of the autumnal *Dasai parab*. This has no reference to any special ingredients but increases the effectiveness of medicine in general. There are certain instructions given as to the time and mode.

The method of diagnosis, generally followed, is by feeling the pulse as amongst the Hindu Kavirajes.

(b) *Tejo Theory.*

The Santal calls in the *Raranic* for diseases due to natural causes. But he also has a theory of disease which in his scientific viewpoint is as natural a cause as infection caused by bacteria. But we can look upon it as an agency which is natural and yet supernatural and sometimes also diffused with human agency. According to them diseases would be caused by a *tejo* which may be large or very microscopic. These *tejos* are located in different parts of the body, some at the root of the nose and some at different parts of the body. Rev. Bödding gives a detailed description of this theory,¹ where he describes how there is a belief of *tejo* causing leprosy or hydrophobia, etc., how these *tejos* enter the body through food, etc. The *tejo* germs are often believed to be collected by witches for spreading disease amongst people. In the first place naturally the herbalist tries his drugs but this failing the witch-doctor is called.

The Tejo theory of disease falls in line with what Dr.

¹ Rev. P. O. Bödding, *Studies in Santal Disease and Connected Folklore, Part I*, pp. 6-8. *Memoirs of the A. S. B.*, Vol. X, No. 1, pp. 1-132.

Clements¹ calls disease-object intrusion. Dr. Clements in his study has apparently left out (at least he has not specifically mentioned) the important pre-Dravidian tribes of Chota-Nagpur such as Santals, Hos, Mundas, etc., and thus in his distribution map No. 2 this portion of India is not shaded as it ought to have been. He has shown this idea to be almost universal in the New World and extended up to Siberia. Another area is shown in South-Eastern Asia and the Santal under consideration would show a continuous distribution of this from Chota-Nagpur to the Pacific area. Other centres in Europe, Western Asia and Africa are recorded as being capable of tentative connections with the area of the Santal and South-Eastern Asia. The *tejo* concept of the Santal is identical with the disease-object intrusion concept in other areas. According to Dr. Clements (to whom the Santal area is unknown) "the criterion is the actual presence in the body of a tangible, supposedly pathogenic substance. Now although the exact nature of this substance varies considerably, such variation is quite haphazard. That is to say, there is no regional differentiation, the most common intruders being small pebbles, bits of leather, sticks, little bones, hairs, coagulated blood, insects, and even small animals."² The idea of dental diseases due to worms in the teeth is not only known in the Santal area but is common in Bengal and perhaps other parts of India, and is treated in India generally by wandering gypsies called 'Bedia' who might have been a distributing agency of this idea in other parts of the Old World. The distribution of the disease-object intrusion concepts in South-Eastern Asia, and perhaps in Western Asia also, may be centered in India if we take the whole as a continuous area of which information has not been collected from some parts of Persia. The old Hindu theory of fever (*Jvara*) is that it is brought about by an intruding disease-demon (*Jvarāsūr*) which finds its

¹ Dr. Clements, *op. cit.*, p. 209.

² Dr. F. E. Clements, *op. cit.*, p. 231.

way into the body of the afflicted through a disease-object. Could it be suggested that the disease-object intrusion idea was taken up by the Hindus from an earlier surviving primitive concept and incorporated into the systematized medical treatment through which it diffused to Western Asia on the one hand and Indonesia on the other ? More knowledge of Chinese and Indian mutual influences on the medical systems of both countries might bridge the gulf between the areas of South-Eastern Asia and Ainu-Sibero-American zone.

(c) *Spirit Intrusion and Witchery.*

There is a strong belief almost universal amongst the Santals that disease is also caused by the presence in the body of a malevolent *bonga*, *i. e.*, evil spirit, ghost or demon. Dr. Clements has drawn rightly a distinction between a spirit intrusion and spirit possession.¹ Amongst the Santals the most respected person would be the *Ojha* who would work for good, being 'possessed' by a spirit. Whereas all the evils and sorceries are due in their belief to the intrusion of the *bongas*, often worked to that effect by that most hated and feared human set, the *dains* or witches. It is further curious to observe how the concepts of sorcery, breach of taboo, and *bonga*-intrusion have become closely interwoven with each other in Santal thought. The spirit or *bonga*-intrusion is generally aided by the human agency of the sorceress—but the witch of the intruding malevolent *bonga* would be powerless to offend unless the victim had committed some breach of taboo. The witch-doctor who is called in aid of the diseased, first of all enquires carefully about the conduct of the patient so as to find out the nature of the breach of the taboo which has enabled the evil *bonga* to intrude and then with the help of expiatory rites and superior spirit-aid he drives away the intruding evil *bonga*.

¹ Dr. Clements, *op. cit.*, pp. 216-225.

Spirit intrusion, according to Dr. Clements, is probably considerably later than disease-object intrusion and had undergone considerable diffusion before the full Neolithic period of Western Asia. Clements has further shown that belief in disease causing sorcery is distributed to the ends of the earth. It is of almost universal occurrence in the Old World and extends from the north to the south even in the New World. The basic idea has been suggested to be possibly due to the "Elementargedanken" of Bastian.

The mechanism of sorcery in the area is either by magic as amongst the Andamanese or by shooting a magic bow or '*bān*' into the victim or extracting some internal parts of the victim as amongst the Australians.

Sorcery in the Santal area, according to Bompass, is practised by forms of magic as amongst the Andamanese.¹ The District Gazetteer records how the witches draw the picture of a person to be harmed and the image is then maltreated or symbolically killed by the process of imitative magic. They also would bury tufts of hair with vermillion or *sindur* which being in contact with the victim's body are subjected to a process of contagious magic and the victim is expected to fall ill.²

Similarly, on the authority of Bompass, we know that supernatural agencies or malevolent *bongas* are directed by witches to kill a man on a certain day, or the witches bring about misfortune on other men by ordering their *bonga* husband to do so and nagging them on till they commit mischief. Amongst the Birhors Mr. Roy records how the familiar spirit is directed towards the victim's house towards which she threw some rice. The Oraon *modus operandi* of witchery as recorded so fully by Mr. Roy brings this area more in line with Australian practices. The employment of the magic arrow or '*bān*' is a belief widely distributed in North-Eastern India. The magical extraction of the victim's vital organs which among the Australians

¹ Bompass, Folklore of the Santal Parganas, p. 429.

² Bengal District Gazetteer (Santal Parganas), p. 123.

is the kidney fat, is amongst the Oraons believed to be the heart, whilst amongst the Santals it is supposed to be the liver as our informant told us. Bompass also records an incident where a witch was surprised while extracting the liver from a body in order to eat it.¹

Witchery through the evil eye is a belief rampant not only amongst the Santals but amongst other more cultured peoples of North-East India. It is also found amongst the Birhors, Hos and Oraons.

It is curious to observe how, though the Oraons have both male and female wizards and witches, the Santals ascribe this evil only to women. Their tradition, as recorded by Bompass, fully brings it out² :—

“ Once upon a time Marang Buru (principal deity) decided that he would teach men witchcraft. In those days there was a place at which men used to assemble to meet Marang Buru and hold council with him, but they only heard his voice and never saw his face. One day at the assembly when they met Marang Buru he told them to come to him in their best and cleanest clothes for he would teach them witchcraft. All then went home and told their wives to wash their clothes well against the fixed day as they were going to Marang Buru to learn witchcraft. All the women made a plot to learn it by making their husbands drunk on the appointed day and they then wearing the dress of the males went off to Marang Buru to learn witchcraft in place of their husbands. They then went to Marang Buru but Marang Buru did not detect the imposture and taught them witchcraft. After their return however their husbands came back to their senses and they at once went to Marang Buru to learn witchcraft. Marang Buru said ‘ I taught it all to you this morning, what makes you come again.’ They were astonished at this and protested that they had not been to him at all that morning.

¹ C. H. Bompass, *op. cit.*, p. 421.

² C. H. Bompass, *op. cit.*, p. 422.

Marang Buru said, 'Then you must have told your wives what I forbade you.' They gave an answer in the affirmative. Marang Buru then taught the science of Ojhaism and Jan in order that they might have some advantage over their wives, and be able to overawe them. This is why only women are witches and men are Ojhas and Jan-gurus.'

Women, who are witches, of several neighbouring villages meet under some trees on a secluded place at some distance from human habitation generally on a Sunday at dead of night of a new moon. There, it is said, they strip themselves of their clothes and wear only the fringes of old brooms made of wild grass suspended from a girdle round their waists. Thus arranged the naked women hold the witches' dance. They have their peculiar secret songs and *mantras*, perform sacrifices and also try to kill people by magic very much in the same way as the old witches of Europe. It is particularly on the night of *Amawasa* (new moon), in the month of Kartic that these witches' dances are celebrated with special eclat. Large companies of witches, it is said, move about that night and people are afraid of stirring out of their houses at a late hour that night. New girls are initiated on that night into the mysteries of witchcraft. When girls are initiated into witchcraft they are taken away by force, and are taken to all the most powerful *bongas* in succession, and taught to invoke them. They are also taught *mantras* and songs and by degrees they cease to be afraid. The beginner is made to come out of the house with a lamp in her hand and a broom tied round her waist. She is then conducted to the great *bongas*, one of whom approves of her and when all have agreed she is married to that *bonga*. After this she can also marry a man in the usual way. When the girl has learnt everything she is made to take her *Sid-atang* (degree) by supposedly taking out a man's liver and cooking it with rice in a new pot ; then she and the young woman who is initiating her, eat the feast together ; a woman who has eaten one such stew is said to be completely proficient and can never forget what

she has learnt. If any girl refuses to take the final step and will not eat human flesh she is caused to turn mad or commit suicide. Those however who have once eaten human flesh acquire a craving for it.

Should any outsider happen to come their way during these dances and sacrifices, the stranger is challenged and if he be found to be a mere wayfarer and not an inquisitive spy, he is warned on pain of death not to speak to any one of what he may have seen or heard. On his promising not to utter a word about it he is permitted to depart. Should he prove faithless, it is said, he is sure to be killed by magic. We are citing below a story about this from Bompass (*Folklore of the Santal Parganas*).

In the village of Mohulpahari there was a youth named Jebra. One night when he was coming back very late he met with a crowd of witches standing under a hollow Mowah tree.

He managed to struggle free and run off. Two days after this those witches caused him to fall from a tree and break his arm. Ojhas failed to cure him. The arm stiffened and maggots formed and in a few days Jebra became speechless and died.

How strong the belief of witchery amongst the Santals is even to-day could be easily judged from the following case of actual witch-murder reminding us of England and Europe a few centuries ago.

A Santal of the name of Mangal Soren of the village of Bijaipur, in the district of Santal Parganas, murdered a Santali woman of the name of Gaura Murmu believing her to be a witch who had caused the death of Rajam, a Santali, through her witchcraft. The case was heard at the Patna High Court by Justices Culwant Sahay and Sir T. S. Macpherson on 5th January 1933. He (Mangal Soren) was convicted and sentenced to death.¹

¹ Reported in a Calcutta daily paper, *Amrita Bazar Patrika*, 7th January, 1933.

SPIRIT DOCTOR—THE SANTAL OJHA.

A type of Shamanism is present in full swing amongst the Santals though the authority of the headman is always strong and respected. The *Shamans* amongst the Santals have degenerated into mere physicians with higher types of knowledge which in their theory entails communication and, partly, control of the supernatural world. Thus when the herbal doctor fails, men with knowledge of divination and favoured by *bongas* are called in. There is no female *Shaman* as the female with supernatural power is always looked upon as wicked, malevolent and persecuted as witches. So it is to pit his higher knowledge against the wicked machinations of the witches that the *Jan guru* or *ojhas* are called who thus are important social functionaries curing individuals of their constant depression due to fear of sorcery and the evil eye or acting as village mental sanitation officials. Thus these Santal medicine-men, soothsayers and masters of incantations have to work hand in hand with the chiefs.

The name *ojha*, which the Santal uses, is not a Santal word ; it is a Hindi word, used for diviner, enchanter, sorcerer, magician, etc. The word is derived from Sanskrit. The Santal has borrowed this word from the Hindi-speaking people. Rev. P. O. Bödding is of opinion that the Santal has adopted this exorcism from the Hindi-speaking people. His argument in favour of it is that the work of a Santal *ojha* in nature partly resembles that of the Hindu *ojha* and the special *bongas* invoked by the Santal *ojhás* all have names of Hindu origin in addition to their special *bongas*. But a tribe which believes so much in spirits (both malevolent and benevolent) must have some method of propitiation of those spirits as is usual among almost all the primitive tribes of the world.

The *ojha* is also a physician. The difference between the herbal doctors and the *ojha* lies in the fact that the former gives only medicine whilst the latter in addition to giving medicine will try

to drive away the disease by magic incantations, etc., by the assistance of his special *bongas* whom he knows how to force to work. The *ojha* also professes to know how to find out and deal with the possible supernatural powers at work.

The *ojha* first feels the pulse,¹ sees the tongue of the patient and after having diagnosed the case he tries to drive away the complaint by uttering magical formulas or singing *jharui* songs over the patient. These *mantras* and *jharuis* differ in every disease.² After uttering the *mantras* the *ojha* blows over the patient commencing at the head and finishing downwards and towards the back. When the *mantras* or *jharuis* or both have no effect, as they naturally never have in cases of disease, the next thing the *ojha* will do is to call for Sal leaves and a little mustard oil (which the Santals call *Sunumbonga*, lit. oil offering). With these he verifies the correctness of his diagnosis, arrived at by feeling the pulse, seeing the tongue, etc. Having done this he then gives necessary instructions as regards food and treatment and himself brings or orders for the ingredients wanted for the medicine to be given. The *ojha* is very particular not to divulge the secrets of his profession. Once in the Sundar Pahar village within Godda Danin in Santal Parganas a little boy was ill. The *ojha* of that village was called by the father of that little boy to see and give him necessary medicine. He brought the root of a tree from the jungle and gave the little boy the juice of that root as a cure. I asked the *ojha* the name of the tree but he never divulged the name of the ingredients of his medicines to me inspite of my repeated request. If the patient is not cured they call in some other more competent *ojha* from another distant village. Sometimes the *ojha* takes another means to detect the disease and the name of the *bonga* who is making the mischief. This

¹ According to their idea if the pulse comes towards the thumb or index finger it is a sign that *orak bongas* (house *bongas*) are hungry. If the pulse comes towards the middle finger the *abge bongas* (tutelary *bongas*) are hungry, if towards the ring or little finger a *bonga* of the field or outskirts is at work.

² Rev. P. O. Bodding, op. cit., pp. 1-32.

the *ojha* does by means of a twig of Sirom broom and drawing certain squares on the earth. (This is called " *Tarik* " by the Santal.)

The *ojha* adopts the following methods to cure the disease of the patient :

(1) *Adwa chaole* and *Bul mayam*.

(2) Disease localised at one point of the body and the evil cured by biting and sucking, i.e., by sucking out the intruding disease-object.

(3) *Bongas* removed by digging.

(4) *Bongas* exorcised.

(5) Medicine administered.

Among the Santals two kinds of *ojhas* can be seen : those

How a Santal becomes an ojha : the method of initiation. who learn for pleasure's sake and those who learn seriously and earnestly. In the case of the first no initiations are required after the learning is over whereas in the second initiation is the essential part of the learning. To become an *ojha* (both professional and amateur) one has to be a disciple under an expert *ojha*. The first course commences on the middle of Jaishtha (May and June), their first sitting being on a Sunday or in some cases on a Friday. Every day they come to the house of the *guru* after taking their meals. They take their seat in the courtyard of the *guru's* house. In the courtyard there is an elevated place, square, sometimes rectangular, the size generally being $1\frac{1}{2}' \times 1\frac{1}{2}' \times 1'$ (high). It is made of earth, and a *Tulsi* (*Ocimum Sanctum L.*) plant is planted in the centre of the mound over which a shed is erected. The shed is so large that it can easily accommodate 10 to 12 persons. The shed is erected by the unmarried disciples ; married ones have nothing to do with the erection of the shed. The posts of this shed are of *sal* wood. In the centre of the shed a hen's egg and a *chir sakom* (a thin kind of iron wristlet or arm ornament) are kept for preventing witches from molesting them. The course lasts for four months.

A woman cannot be an *ojha*. The first act of the *ojha* is what is called *Akhra rara* which means performing the opening ceremony, to ensure that all may go well and without any hindrance. The first evening the disciples bring along with them some *sindur* which is given to the *guru*. In five different places in the courtyard the *ojha* makes vermillion marks in the name of the following five different *bongas* :

- (1) *Kamru guru* (the reputed first teacher of *ojha* science to the Santals),
- (2) *Sin Bonga* (the sun),
- (3) *Kali mai* (the goddess Kali),
- (4) *Dibi mai* (the goddess Durga),
- (5) *Ganga mai* (the Ganges goddess).

The following invocation is offered to all of them by him only by changing the names of the *bongas* :

“ Nokoe, kamru guru (or others as the case may be) amin tikawam kana ; nokoe cela korako durup akana ; ado ninda nuta ko hijuka calakako ; tobe badi bairi noko cela alo bare lagaoako ma alo jemon hoe husit, tatka birki hoyok ma ; nae napae bareko hijuk calak mako ! ”

(English Translation.)

“ Here you see, *Kamru guru*, I am making a mark for thee ; here, you see, disciples are sitting ; they will come and go at night in darkness ; then may malevolence and enmity not come in contact with these disciples ; may there be no spell of an evil eye, no sudden fright ; in perfect safety may they come and go.”

After having invoked the *bongas*, the *guru* utters the opening *mantra* which is as follows :—

“ Akhra khollom, makra kholo, ke khollom ? Guru khollo, guru gita ; malkhollo khollom siri kahri gita kamru dohal khallo.”

(English Translation.)

"I have opened the place of performance. I have opened the site of performance. I have set free the stools to sit on. Who has set free (or opened) ? The *guru* has set free, by the *guru's* knowledge; the mother (likely Kali) has set free ; I have opened by the knowledge of *Sri Kahri*, by the grace of *Kamru* I have opened." ¹

When these preliminaries (opening ceremonies) have been gone through all is ready for the commencement of teaching.

The course is as follows :—

(1) *Mantra* to drive away disease as the supposed super-

The course for learning mantras. natural cause of any disease.—The *mantras* are different for different diseases.

(2) *Jharui* is also different for the different cases, and used

only in connection with certain complaints ;

Jharui. the *Jharui* is sung in a special melody that differs somewhat according to the words; the disciple has to learn the words, the melody and the manner of application.

(3) The songs to be used at the *Dasæe daran*, the dancing and begging wandering, when the course is finished off.

(4) The special dances and play-acting and how to be possessed (*rum*).

(5) Medicines to be used when *mantra* or *Jharui* or both are ineffective.

The details of these five courses have been fully discussed by Rev. P. O. Bödding in his *Studies of Santal Medicines and Connected Folklores (Memoirs of Asiatic Society of Bengal, Vol. X, No. 1, pp. 1-132)*.

In order to become a full-fledged *ojha* it is necessary to receive *sid* (a Santali word which means initiation).

¹ Rev. P. O. Bödding, *op. cit.*, p. 58.

The course of instruction given above is brought to its conclusion shortly before the *Dasēc daran*. Only a very few of the disciples receives *sid*, or care to go so far. It is not the case that the *ojha*, under whom they get their training, declares that a disciple is now ripe for getting initiation, but the disciple requests the *ojha* for his final touch. The *ojha* agrees if he thinks that he may be able to work independently. The *ojha* then demands the following things for the function : A new loin cloth, a goat, a pair of pigeons and some fowls and one to five rupees.

When the disciple makes these things ready the *ojha* with his wife goes to the house of the disciple and gives the *sid* there. The *guru* and *chela* first go and bathe. Coming back they clean some place in the courtyard with cowdung and the *ojha* here puts down a few small handfuls of *adwa* rice and makes some vermilion marks at each small heap of *adwa* rice (the number of heaps vary according to the number of sacrifices to be made). The loin cloth is then spread over the courtyard, the *ojha* takes his seat on it and performs the sacrifices ; the *chela* holds the goats, the fowls and the pigeons whilst the *guru* beheads them. In one of the corners of the loin cloth the money to be given to the *guru* is tied up and when the sacrifices are performed he takes the cloth and money.

Sunum Bonga or Diviniton by Oil and Leaves.

By this means the Santal *ojha* finds out the final cause or origin of disease and death. The *ojha* demands the following things from the person who engages the *ojha* :

- (1) Sal tree leaves (*Shorea robusta*, *Gärtu*).
- (2) Mustard oil.
- (3) A little water.

The *ojha* then squats down and jerks his head a couple of times and then he dips the index-finger of the right hand in the mustard oil and sprinkles a few drops towards the sun and then he draws a mark of oil with the same finger

on the earth. The *ojha* then takes a *sal* leaf and looks intensely over it and then takes another look over it in the similar way. A *sal* leaf has a number of veins which divide the surface into several compartments. In different places on the surface of a leaf the *ojha* drops oil with the index or middle finger of the right hand uttering at the same time what each oil mark is to stand for, *viz.*, the supposed possible cause or origin of the patient's disease. The Santals believe that one of the following causes brings disease, death and misery :

- (1) Natural causes,
- (2) Human beings,
- (3) *Bongas*,
- (4) The spirits of ancestors.

The *ojha* in the above way puts marks here and there on the leaf, at the same time muttering to himself that this is for such and that for such, and a third for something else, and so on, whereupon he commences to rub each mark in with his finger. Whilst rubbing the *ojha* mutters some *mantras*. The Santal *ojha* uses different names for oils and leaves in the *mantra*; if the particular kind used should not be mentioned in the *mantra* the magic would be spoilt.

" Tarik" or Detection of Disease by Sirom Broom.

The Santal *ojha* draws a number of squares side by side on the earth with a twig or handle of a Sirom broom. At first three long lines are drawn parallel to one another on the ground and then a number of short lines are drawn across the above three lines, thus getting a figure with the help of a number of squares. The *ojha* then fixes the twig in each square in the ground.¹ He then takes out the twig from the figures and touches the twig with his forehead and destroys the figures drawn. He repeats the operation a couple of times. When saluting the

* If he uses a broom he keeps this in a vertical position, handle down, for a little while.

twig, a disease is mentioned ; if the hand trembles, it is the disease then just named.

By means of the above operation the *ojha* also finds out the *bonga* who has done this mischief.

The *ojha* with the handle end of a broom of Sirom (*Andropogon Muricatus*, Retz., *Straw*) draws a circle on the earth by sitting on his haunches facing the east. In the centre of the circle the *ojha* puts the handle end of the broom down and then he salutes the broom by taking it out from the circle. Uttering the name of a *bonga*, he again puts the handle end of the broom in the centre of the circle and salutes it by raising it and at the same time utters the name of another *bonga*. In this way he repeats the operation several times until his hand holding the broom commences to tremble (not intentionally). Then he knows it is the *bonga* just named who is making the mischief.

Adwa Chawla and Bul Māyām.

By this the *ojha* propitiates the spirits of the outskirts of the village. The *ojha* calls for some *adwa chawla* (rice husked without having been boiled previously) and for a little vermillion which he packs in a leaf of *sal* tree and instructs the patient to touch this with his left hand. The *ojha* with the "Kartā" of the house comes out of the house. Here the *ojha* pricks his body with a thorn of *jujube* tree. The blood that comes out is smeared on the rice ; the *ojha* then scatters this rice on the ground as an offering to the *bongas* and will at the same time invoke the *bongas*. Blood is given to satisfy a malevolent spirit. Seeing or tasting blood the *bongas* are very pleased and are quickly ready to listen. This offering of blood is called administering *bul māyām* ; 'bul' means to be drunk and 'māyām' means blood.

The *ojha* then washes the parts where he has pricked himself and sprinkles a little water on his head.

After the *bul māyām* performance the *ojha* may take some other precautions. He calls for a *Rombro sim* (a thieving fowl).

They bring him a *lisa sim* (a fowl with feathers reversed, its colour must be other than white). The *ojha* gets some charcoal and burnt clay (from the inside of a fireplace); he then grinds these two separately and puts temporarily aside wrapped up in two leaves. The *ojha* has brought with him a leaf of *sal* tree on which he has performed *Sunum bonga*. This he performs near the patient. He first draws a circle on the floor with a small bit of wood the diameter of which is about 12 inches. Inside this circle he makes a number of marks resembling those on the leaf; he then spits on the drawing within the circle and puts his left heel heavily down on it and finally with the same left heel rubs out the marks he has drawn. He performs this operation several times. During this time the *ojha* remains silent. The object is to undo the deception of a possible witch. After this, he puts a leaf-plate on the ground, draws a circle on it and puts some burnt clay from the fireplace and then makes cross marks by powdered charcoal. He destroys the figures by dropping powdered rice over them. He repeats the process two or three times and then puts his heel down in the centre of the figure on the leaf-plate, and ultimately bites the plate with his teeth and in this way turns it over. Next the abovementioned fowl is given into the hand of the *ojha*, and he applies vermillion (*sindur*) on its head after having washed it with water. The patient is then brought before the *ojha* and sits down in front of him. The *ojha* asks the patient to touch the fowl and makes the fowl feed on the rice kept on the leaf-plate.

Next the *ojha* performs a very important function with the patient which is known as *bulan*. He takes the fowl and moves it thrice round the patient making a circle alternately from right to left and thrice alternately the opposite way, passing the fowl on its way between his legs from behind and forwards; the fowl is first taken in the right hand round the patient, passed between the *ojha's* legs from behind underneath the right thigh; here the *ojha* takes hold of the fowl with his left hand

and passes the fowl round the sitting patient and beneath his left thigh when he again changes hands.

With the cowdung the *ojha* obliterates the traces of the circle he at first drew with the twig. Again he, with the little finger of his left hand, draws a square mark on the ground, and within this square the *ojha* pinches off a little earth, mixes it with cowdung and rolls it into a ball. This ball he keeps into a cup of water, only to clean it. The *ojha* then throws some ashes into a leaf-cup with water.

Then the *ojha* takes the leaf-wrapped charcoal and *etko* and whatever else he has used for making figures, etc., and, wraps these things in a leaf-plate. Taking the leaf-plate and the fowl in his hand the *ojha* walks out of the house of the patient without casting his look backwards. The people inside the house now take the two cups and throw the water after the *ojha* and quickly close the door. Followed by some of the village men the *ojha* goes straight to the forest or to some other place away from that quarter. Here he sacrifices the fowl in the name of some *bonga* of the outskirts offering an invocation. Some kill the fowl and eat it forthwith while others sacrifice the fowl by wringing the fowl's neck. In this case, however, they do not eat it but leave it on the spot with some pieces of stone thrown over it. The last procedure is the most common. The *ojha* after having done all this returns to the house of the patient where he brings down oil and vermillion. He makes some mark in the courtyard with vermillion, at the same time making a vow of offering sacrifices to some special *bonga* of his when the patient recovers.

THE JAN GURU OR THE WITCH-DETECTOR.

The word *Jan* is not a Santal word ; it is borrowed from a Hindi word meaning 'to know,' i.e., he is the man who knows by revelation. People pronounced by the *Jans* to be witches are taken as witches by the Santals. Whether they really

find them out or the whole thing is a hoax, the Santals believe that they find them out.

When in a family a man suffers from a disease, and none can cure him, the patient or his relatives decide to carry the matter to a *Jan*. They always go in a crowd to the *Jan*. They are, as a matter of course, a couple of men representing the patient, the husband and male relatives of some woman clearly suspected and a few villagers as witnesses. They go together and never lose sight of one another to prevent any one from secretly informing the *Jan* about their business. When they reach the *Jan's* village, they go to the village headman and ask him to introduce them to the *Jan guru*, a request which is always complied with. The headman then asks them to bring the following things, necessary for divination :—

- (1) One betel nut, (2) one *sal*-leaf cup, (3) some *adwa* rice, (4) mustard oil, (5) vermillion, (6) resin of the *sal* tree, (7) and some leaves of the *bael* tree (*Aegle Marmelos*).

On the appointed time they come to the *Jan* who will transact his business with them either in his own house, or in the *Jahersthan*, or somewhere outside the village.

The *Jan* puts down some *adwa* rice in a number of places in the name of different *bongas*, puts alongside all these heaps of *bael* leaves and finally, having mixed the oil and vermillion, puts that oil-mixed vermillion in front of the rice. He then throws resin on burning charcoal, blows *shākuā*, sounds the *bonga* bell and worships his *bongas* (they have adopted these things from the Hindus). Then the *Jan* begins to utter incessantly incoherent words. He then tells the name of the place wherefrom they have come, then, the name of the village, the description of the village, the name of the headman of the village, the name of the person who is sick and that of his relatives. At this they are convinced of the proficiency of the *Jan* and tell him 'Now let us hear the oracle.' The *Jan* then takes his fee which is a rupee and tells them the name of a *bonga* or a *witch* who is at the bottom of their troubles.

Then they return to their village. If the *Jan* says that a *bonga* is giving the trouble then the patient will promise sacrifices. If the *Jan* declares any woman to be a witch, this woman is harassed in every possible way, fined and driven out of the village, and at times killed.

At present the *Jans* are, according to Santal belief, not like the old righteous ones. The *Jans* of ancient time got their knowledge through dreams at night or through visions in the daytime, not possessed by a divination spirit like *Jans* of the present day. Now-a-days the *Jans* keep informers who find out and tell them all particulars. *Jans* of to-day are very careful in fixing the blame. They generally fix the blame on some *bonga* or other in preference to a witch.

CLASSIFICATION OF THE SUPREME, SUPERIOR AND SUPERNATURAL BEINGS.

It is very difficult to attempt a classification of the orders of the supernatural beings which constitute the religious belief of a community. The classification would often imply the existence of a notion of hierarchy of the supernatural beings, one being far superior to the rest. It is curious to observe that this supreme being is never worshipped in the faith that he can never work out any evil. As for the rest the rank may be determined in the order in which worship is offered to them. But here again the difficulty would lie in the fact that a particular occasion would demand predominance being given to particular spirits. Thus the classification would be more or less a division in parallel lines, for it would be hard to decide the superiority or inferiority of the ancestral spirits on the one hand and the departmental deities of nature on the other. However the following eight classes would differentiate the types of these supernatural beings in Santal belief.

1. The highest divinity recognised by the Santal is *Kando*, the Supreme Being, the Creator. He is the only one who can

give and restore life and who has created the trees, plants, animals, etc.

2. The spirits of dead ancestors are placed by the Santals in a separate class by themselves.

3. The next is composed of household spirits known as *Orak bongas* and tutelary spirits known as *Abge bongas*. The names of the *Orak bonga* are the following :—

- | | | | |
|--------------|---------------|-----------------|------------|
| 1. Baspahar. | 2. Deswali. | 3. Sas. | 4. Goraya. |
| 5. Barpahar. | 6. Sarchawdi. | 7. Thuntatursa. | |

The names of the *Abge bonga* are the following :—

- | | | |
|----------------|-----------------|---------------------------------------|
| 1. Darasore. | 2. Ketkomkudra. | 3. Champa denagarh. or Dharasanda. |
| 4. Garsinka. | 5. Lilachandi. | 6. Dhanghara. |
| 7. Kudracandi. | 8. Barhara. | 9. Duarseri. |
| 10. Kudraj. | 11. Gasain Era. | 12. Achali. |
| 18. Deswali. | 14. Pahardana. | |

It may be noted here that the Santal would not divulge the name of his *Orak bonga* and *Abge bonga* to any one but his eldest son and I was fortunate to get the names from the Christian converts.

4. The fourth class is the hunting spirit known as *Rongo ruji*, a *bonga* to whom worship is made on the night before the men start for the annual tribal hunt with utterly obscene songs and practices.

5. The fifth class of spirits are the village deities, which are the following :—

- | | |
|--------------------------|-------------------------|
| 1. Jaber Erā (female). | 2. Gosain Erā (female). |
| 3. Turuko Muruko (male). | 4. Marang Buru (male). |
| 5. Parganat (male). | |

The Santals worship the above deities periodically in the sacred grove.

6. There are spirits of the village boundary known as *Sima bongas*, and of the outskirts of the village known as *Bahre bongas*.

7. Next come tramp or stray spirits who are spirits of persons and children dying an unnatural death.

8. The spirit of the father-in-law's household, as is believed, sometimes follow the bride to her new house which is known as *Naihar bonga*. As soon as a Santal is convinced that the *Naihar bonga* has come along he will either make yearly sacrifices to him, or, as there is some risk connected with it as one does not know the requirements of the foreign *bonga*, he will make arrangements to send him back at once, for by himself he will not return. If either is not done the consequences are disease and death in the house.

Another spirit that must be exorcised is *Kisar bonga*. The *Kisar bonga* is of a rather uncertain character. A man who has got such a *bonga* into his house will be wealthy through him as he steals from others and carries all to the house of his master, but if he is offended there is no end to the mischief he will make. If on his account disease is brought into a family, the whole of it will be exterminated if the *Kisar bonga* is not effectually sent away from the house.

9. The last to be grouped are the spirits or rather mysterious powers residing in or connected with certain objects such as battle-axe (*Kapi Karan bonga* and *Bhalua Bijai bonga*). *Bhalua* is most likely a shortened form of *Bhalua Kapi*, the name of a common form of their battle-axe), and some weird natural objects such as an abnormally gnarled bamboo-shoot, tree-roots, some weird-looking fantastic-shaped hills or a roaring cataract, a waterfall or a tank-side. These spirits are not objects of worship nor do they receive sacrifices but are mischievous spirits who have to be scared away or exorcised by the *ojha* (spirit-doctor).

SANTAL RELIGIOUS CEREMONIES.

The Santals have no temple nor any shed for worship but they have a *Sthan* (place) known as *Jahirsthan* where they worship the village deities. The *Jahirsthan* is a place where religious ceremonies of the village are performed by the Santals. It is situated at the end of the village and it must be within the boundary of the village. It should consist of trees belonging to the primeval forest. A cluster of *sal* trees, about twenty to twenty-five in number, is always required. Among these trees three are essential and they must stand in a row. At the base of each of these three trees a small stone is placed representing the deities *Jahererā*, *Turukomonrako*, *Marang-Buru*. The fourth is an *Ashan* tree which grows anywhere near those three *sal* trees, and a stone is put on its base representing the deity *Pargana Bonga*. The fifth and the last is a *Mowah* tree; on its foot a stone representing the deity *Gosain Erā* is kept. This is the most important one and is known as *Lady of the Grove*.

In the Santal villages there is a succession of festivals throughout the year, nearly all connected with agricultural operations. The chief of these is the *Sohrāl* or *Bānda parab* or the harvest festival, celebrated in the Bengali month Pous (*i.e.*, at the beginning of the month of January) after the rice crop of the year has been harvested. This festival generally lasts for five days. Previously there was no fixed date, villages of one locality performing this festival one day, others performing on some other day. But now-a-days the Deputy Commissioner of the Santal Parganas fixes the date for this festival, and this date is proclaimed by a man with a *sal* branch in his hand in every *hat*. Before this *parab*, Santal women buy large earthen vessels and replace old ones which they bought in the previous year. When the day has been fixed all houses prepare “*handia*” (rice beer) and people invite their relatives. The night before the festival commences, the *naeka* is

religiously abstinent—for before any sacrifice the sacrificer must not have relations with a woman and will have to sleep on the ground on a mat. At daybreak the *goddet* goes round and collects sacrificial fowls from every house. In the middle of the forenoon the *naeka* goes somewhere near a tank together with some of the village people, the *goddet* taking the fowls with him. The *naeka* bathes and then sacrifices the fowls to the different *bongus* after which the villagers cook the fowls with rice and eat them, and also drink rice beer. After this the villagers go to *Kulimucha* (i.e., the meadow on the outskirts of the village), and there they draw rectangular compartments side by side, and in each compartment they put some *adwa* rice and in one compartment they put an egg of hen. They then call the cowboys with the cattle and make the latter tread out the above figures. The cow which treads on and breaks the egg or simply smells at it, is caught. They wash her feet, anoint the horns with oils and also smear vermillion on them. The idea is that the owner of the cow will have good luck. The cow is then lifted up and carried on shoulder and put down before the *manjhi* (headman) whom he salutes and then all elderly men of the village. This the Santals call *Gote puja*.

On the second day in each house of the village within the cowshed the eldest member of the house performs a *puja*. In the centre of the cowshed he draws a circle and within it puts *adwa* rice and paints vermillion and kills white and red fowls and sacrifices pig to *Marang Buru*, the household gods and their ancestors. All the men of the village go with their plough-yokes, battle-axes and knives to bathe. On that day no outsiders are allowed to enter into the house. The Santals call this *Gora bonga puja*.

The third day they set wooden poles in the village street, a bundle of straw being tied on the top of the poles, put some flowers on the poles and also tie five pieces of bread made of powdered rice. Then a bull, after washing and smearing oil on its horns and painting vermillion on them, is tied to the pole.

Then the bachelors and little boys of the village begin to drum, dance and scream so furiously that the animal becomes excited and begins to jump and to the horns of all the cows and buffaloes of the villages a piece of straw is tied and vermillion with mustard oil painted. Friends come and go visiting one another, all (both male and female) more or less drunk and wild with excitement. After all is over, the young people drink and eat in the house of the *jag-manjhi*.

The other two days are for nothing but to enjoy life—merry-making going on in full swing with full sex license. For the five days and nights during which the festival lasts the Santals indulge in a veritable saturnalia giving themselves up to dancing, eating, drinking, singing and sexual license. Although this license does not allow adultery, nor does it sanction intercourse between persons of the same sept, yet if the latter offence is committed it is punished less severely than at other times.

Sakrat.

After the *Badna* festival, on the last day of the month of Pous (December-January) this *Sakrat* takes place. This is in imitation of the Hindu *Pous-Sankranti* festival. On the previous day the Santals, (only males), go out for catching fish. On the day of *Sukrat* they eat curd and parched rice (*chura*), and go out hunting, while the women parch rice and make cakes which the men offer to the ancestors. In the afternoon the *jag-manjhi* collects the men to shoot at a target with bows and arrows after which they dance a war dance and have various kinds of amusements. The day ends with drinking and dancing. On the third day they go out to the *mela* or *hat* afterwards eating boiled rice and *dal* together.

Baha Parab.

Next in importance is the *Baha parab* which is held in the Bengali month *Phālgun* (February-March). This festival takes

place when the *sal* trees (*shorea robusta*) begin to flower. *Baha* is a Santali word which means flower. The purpose of holding this festival is that the new year is well commenced. Drinking, dancing and singing go on in this festival also. The festival takes place in the *Jahersthan* and the *Naike* and *Kudum Naike* worship in the *Jahersthan*. On the first day of the festival the young people of the village build two sheds in *Jahersthan*, one for *Jaher-erā*, *Turuko Moreko* and *Marang Buru* and the other for *Gosain erā*. The *sthans* are cleansed by plastering with cowdung. Then they go to bathe and oil several articles (winnowing-fan, basket, bow and arrows, battle-axe, broom, a wristlet, a necklace and bell and horn of a buffalo which they call *sākua*) which are to be used next day, when three persons become possessed by the three first *bongas* mentioned above. The whole night is spent in drumming at the house of the *naeka*, where all assemble with *bongas* (the persons who will be possessed with *bongas* are called *bongas*). *Jaher-erā* is a female deity and a man who is possessed with this *bonga* takes the ornaments, the basket and the broom; *Moreka* takes the bow and arrow and *Marang Buru* carries the battle-axe. With these articles they start running for the *Jahersthan* followed by the boys who carry drums, cymbals, bugle and bull-roarer. On arriving at the *Jahersthan* *Jaher-erā* sweeps the place; the *naeka* asks the *bongas* (i.e., those who are possessed with the deities) for the things they have brought and places them on a mat. He then asks them questions about the happenings of the coming year. The *naeka* then washes the *bongas* and throws the surplus water over them, whereupon the *bongas* jump up howling. Then they return home.

Next day they again go to the *Jahersthan*. When they see a fine *sal* tree in bloom, *Moreko* shoots an arrow into it, while *Marang Buru* climbs it and cuts down the flowering branches, *Jaher-erā* receiving the flowers in a basket. On the road *Marang Buru* gathers *mowah* blossoms. In the *Jahersthan* the *bongas* are again placed on a mat under the shed, and the

naeka, sitting in front of them, sacrifices the fowls, and places a bunch of flowers with a *mowah* flower before each *bonga*. The *bongas* suck the blood of the fowls, whereupon the *naeka* washes their feet, *Jahar-erā* doing the same to the *naeka*. The *naeka*, together with his wife who is now brought to the *Jahersthan* for the purpose, eats one of the fowls cooked with rice; some of the villagers eat the rest in the *Jahersthan*. After this all leave, except the *naeka* who remains alone in the *Jahersthan*. The villagers then proceed to sacrifice fowls and pigs in their own houses, and to eat and drink. In the afternoon they go to the *Jahersthan* to bring the *nacku* back and the rest of the day is spent in general merrymaking. The women also enjoy to their heart's content.

Erok-puja.

This is the sowing festival, celebrated in the month of Asādh (June-July) in the *Jahersthan*. *Naike* and his assistant *Kudum Naike* perform the function. Five fowls are sacrificed in the *Jahersthan*. There they cook these fowls and eat. The heads of the fowls are taken by the *Naike* and *Kudum Naike*.

Janthar Puja.

This *puja* is held in the month of Agrahayan (November-December) in the *Jahersthan* with a view to celebrate the first fruits of the winter rice crops. At this time only one fowl is sacrificed in the *parganasthan* in the *Jahersthan* by the *Kudum Naike*, the flesh of which is taken by the men only.

Hariar Sim.

This festival is observed after the rice has been planted. This is held in the month of Srāban (July-August). Fowls are sacrificed to all the tribal and village deities and prayers are offered for a bounteous harvest.

Mak' Mōrē.

This festival are observed by the Santals generally at intervals of five years or so in the *Jahersthan* as a result of vows made at times of distress or epidemics. Fowls are sacrificed and a white goat is sacrificed in the name of the village community to *Mokreko*, one of the five deities of Santals which they worship in the *Jaherslhan*.

Jom Sim.

This festival is observed in honour of the sun. It is not observed at regular intervals but each family strives to observe it once in a lifetime. But generally when a man suffers with some disease he makes this vow to the sun (*Sin' Cando*) : "Please cure me, I shall propitiate you after my recovery." After five years he fulfils his vow with due respect and sacrifices two goats which he rears for these five years. According to tradition *Jom Sim* was originally a sacrifice only to the sun, but now the Santals have got separate *Jom Sim Bongas*; so now *Jom Sim* the sun (*Sin Bonga*) receives the sacrifice of a goat and the special *Jom Sim Bonga* that of another. That is why the Santals rear two goats for five years sometimes; it can be seen one goat and one ram, first one for *Sim Bonga*, the second for special *Jom Sim Bonga*. The *Jom Sim* is performed with many quaint ceremonies which differ somewhat for the different septs. It is probably the oldest sacrifice the Santals have because it has more aboriginal features in it than any other sacrifice of theirs.

Magh-Sim.

Magh-Sim is held in the month of *Magh* (January-February), when the jungle grass is mown; fowls are sacrificed to all *bongas* by the *Naike* and *Kudum Naike*. This festival marks the end of the Santal year. All the village officials go through the form of resigning their offices and the cultivators give notice of giving up their lands. After a week the headman of

the village says before all the villagers that he has changed his mind and will work in that post, if they accept it, and this is followed with free drinks of *handia* (rice beer) and is carried with acclamation. One by one all other officials do the same and all other things become the same as before.

We now propose to describe here festivals which are believed to have been borrowed by the Santals from others. These are as follows.

Jātrā Parab.

The Santals have probably borrowed this from the Bhuiyas. The Santals perform it here and there outside the village in the month of January or February. Pieces of stone are imbedded in raised mounds of earth and are first painted with vermillion. The *Naike* then mixes some *adwa* rice, milk and betel-nut together and offers this compound to the *bonga*. Then a pigeon and a goat are sacrificed and their blood poured out as an oblation. During the performance oracles are chanted by three or five persons in number, who sit close in a row on some adjacent spot, wag their heads to and fro all the time and work themselves into a prophetic frenzy. Any Santal, who consults them in a reverent manner, will at once get an answer to his questions whether as to his bodily ailments, the death of his cattle or the suspected presence of a witch in his village. For this at least four annas are thrown down at the feet of those five persons.

The Chātā Parab.

This is a Hindu festival which takes place in the rainy season in the month of Bhādra and is observed by one sept, the Hāsdah and by their *Kamars* (blacksmiths). The preliminary function of this festival resembles those of all the others but at the end of the offering a ceremony takes place. A wooden pole, about twelve cubits long, is erected and made to turn a half circle perpendicularly and horizontally. The pole is fastened on a loose

but strong iron pivot which rests in holes made in two upright pieces of wood about six feet in height from the ground. On the top of this revolving pole is tied a small ornamented umbrella and this is caused to jerk first one way and then the other. The erection of this pole is followed with shouts and other noisy demonstrations of delight, the people gather handfuls of dust and dirt and forthwith begin to pelt the umbrella. This novel mode of veneration is at the same time accompanied with dances both by males and females. Refreshments and *handia* (rice beer) are dealt out from sheds erected for the purpose and the whole assembled population regale themselves in the open air with it. The sacrifices in this festival are always eaten at home and not on the spot.

Pātā Parab.

This festival is held in the month of Baisākh in honour of *Pātā Bonga*. It is really a Hindu festival in honour of Mahadeo. It is a corrupt form of the Hindu *Charak Puja*. Formerly the Santals used to be suspended from a high revolving pole by hooks inserted in their back and swung round and round. The swinging apparatus still exists but if anybody swings he is suspended by ropes, not by hooks. In this festival the same sacrifices are offered as at *Jātrā Parab*.

Besides these the Santals join in many of the Hindu festivals. In the Durga Puja ceremony the Santals come to see the ceremony and rejoice. Within their village they, both males and females, sing and dance together for these five days. The Santal performs the Kali Puja. Evidence of this can be ascertained from news published in one of the daily newspapers in the year 1933 on February 16th.

"The Santal Guru Sannyasi Baba has sent the following letter to the District Magistrate, Malda :—

About a hundred Santals from Malda bring it to my notice that their annual Kali puja which was so long performed by

their Sardar Jitu under my orders is going to be stopped. Unhappily, Jitu under a sad mistake died and the Santal Kali puja should not, on that account, be stopped. On the other hand, to allay this strained feeling amongst the Santals I propose to hold the Santal Kali puja at Malda myself. I assure you there will be no disturbance and not only that it will bring back the old good feelings so far as practicable under the circumstance.

As the puja will be held in the month of Falgun I shall be highly obliged to receive an early reply to this letter at your earliest convenience. The annual Santal Kali puja at District Dinajpur inspite of Gangarampur Santal shooting passed off smoothly and the authorities allowed it and were satisfied."'

CHAPTER II

THE SANTAL SOCIAL ORGANIZATION.

Family.

The family amongst the Santals should be of great interest considering that the Santals have been described as polyandrous, for besides the privileges of the younger brother over an elder brother's wife or the latitude allowed to the husband with the wife's younger sisters, there ought to have been traces of at least what has been called group-marriage. As the Santals could be taken as the representatives of a state of culture preceding the Dravidians in India and so be taken as a type of primitive patriliney, theoretically it should have shown the stages of family life which Morgan has described to be pre-Aryan types. Linguistically the Santals belong to what has been called the Austric group and thus would be the westernmost peripheral representatives of what is the Hawaiian type of family in the Pacific. In social structure also as well as in a sort of totemic organization the Santals recall several features of the Australian aborigines. So an inquiry into the Santal family organization compared with the Hawaiian types or Australian systems or the polyandrous Nair or Tibetan types is necessary.

Amongst the Santal generally two types of family can be
Types of family. seen :

(1) The individual family consisting of father, mother, sons and daughters.

(2) The second consisting of grandfather, grandmother, sons, their wives, daughters (unmarried) and grandchildren, which is equivalent to the Hindu "Joint family;" the Maori

calls it "Whanau" (meaning extended family or family group) which corresponds to the German "*Gross familie.*"

The family is broken up by marriage when the daughters by the law of exogamy go to another clan. Up to the time of their marriage the daughters are the property of their fathers or the nearest male relatives (if the father is dead), who take charge of her ; when married they come under control of the family of their husbands (with these as their immediate lords and masters) and this they continue to be so long as there is any one who has a right in them. If such a state ceases, they have no longer any *locus standi* ; they revert to their original relatives, if they are alive or become a sort of guardianless minors, if none such exist utterly destitute except for what people may give them or what they may be able to earn through their work. It can be seen that the sons sometimes establish their own home, when they have got their own family. But ordinarily the sons with their wives live with their father and mother.

(3) There is a third type, in which the son-in-law is taken as a son in the father-in-law's family. If in a *Ghardi-jawae*. Santal family there is no son but only a daughter, they marry their daughter off and give the son-in-law the position of a son, provided he lives with his father-in-law. If in a family there are grown-up daughters and minor sons, the son-in-law works for his farther-in-law without wages for five years. He then gets two buffaloes, some rice and some agricultural implements, and set up a house for himself and his wife. This sort of son-in-law is called *Ghardi-jawae*.

In the individual family the father is the *pater familias* whereas in the other type the grandfather or any senior male member is head in every respect; other members, however senior they may be in age, must remain under his authority. In the Santal family all the brothers marry different wives (monogamous) which can be verified from the genealogical trees of the different Santal

Family not polyandrous.

families. It is not like the normal Toda family which consists of a number of brothers—brothers with one wife—and each house belongs to a family of this kind and is handed on to the children of the brothers (Rivers' *Toda*, p. 559).

There are no different terms of kinship for the father, father's brother, as also for mother and father's brother's wife which would not have happened, if there had been polyandry—

| | | | |
|-------------------------------|-----|-----|----------------|
| (Toda) Father | ... | ... | <i>In(aia)</i> |
| ,, Father's brother | ... | ,, | |
| ,, Mother | ... | ... | <i>Av(ava)</i> |
| ,, Father's Brother's wife... | | ,, | |

A consideration of terms of kinship of the Santals side by side with that of the Todas shows that the terminology of that of the Santals is cast in the same way as amongst the Todas. The terms for father and the father's brother are the same, the only difference being marked by the addition of descriptive words like *Gongo* (elder) or *Hopen* (younger); so also the terms for the father's brother's wife and of the mother is the same, only modified by the addition of descriptive terms, younger and elder. This might argue in favour of the existence of polyandry amongst the Santals. But the constitution of the family is entirely different. Amongst the Santals as distinguished from the Todas each brother has a separately married wife who is always recognised as the partner of that brother only and does not belong to all the brothers as amongst the Todas. When the child is born there is no question of any difficulty of identity of the biological father who is bound by individual marriage ties to its mother. This is quite different amongst the Todas, where a sociological fatherhood has to be determined by the bow and arrow ceremony of generally the eldest brother in the family when a woman is with child. This sociologically recognised father may be quite different and is often so from the real biological father. Whereas amongst the Santals the sociological and biological father is always the same except in cases of adultery.

Amongst the non-fraternally polyandrous Nairs again there was a custom of several husbands visiting a common wife in turn and leaving shoes, etc., outside for prohibiting the entry of other husbands. There is no trace of any such custom nor any matriarchy amongst the Santals which would have been necessary for such a system of non-fraternal polyandry. True there is the custom of the junior levirate by which the husband's younger brother has marital right over the elder brother's widow. But this marriage can only take place when the elder brother is dead and there is no question of the younger brother marrying the elder brother's wife while he is alive. Though there is a jocose relationship between them, the elder brother's wife is respected as mother. So also the elder brother avoids even touching the shadow of the younger brother's wife, not to speak of her being regarded as the property of the elder brother. There is also the custom of sororate by which a wife's younger sister could be married by the husband. But the wife's sister is generally and almost universally married to another. So it is possible that the identity of the terms of kinship for the father and father's brothers may be explained by the levirate. In such a case the father's brother's wife would be a second mother and so the terms of kinship for the mother and father's brother's wife, would be same. Besides the function of the father's elder brother's wife in a joint family system is more or less of a supervising mother, so this also might explain the identity of the kinship terms.

(Santal) Father ... Apum, now also bābā.

.. Father's brother... (Gongo) Apum (elder), (Hopen) Apum (younger).

.. Mother ... Ayo (Gongo).

.. Father's brother's (Gongo) Apo (elder), (Hopen) Ayo (younger), wife.

But the Santal family though apparently the same in structure of kinship terminology is quite different from the polyandrous

Toda family. Comparing the families of these tribes it can be seen clearly that polyandry is not present amongst the Santals. Mr. Craven and the Rev. L. O. Skrefsrud have stated in J.A.S.B., Part 3, 1903, pp. 88-90, that fraternal polyandry is a recognised custom among the Santals and this has been taken up as an official fact in the District Gazetteer, Santal Perganas. But when we compared a Santal family minutely with the polyandrous family of the Todas as above we found the opinion of these two writers not supportable by any evidence whatsoever.

The definite nature of an individual non-polyandrous family Husband and wife. amongst the Santals is brought about by the relation between the husband and wife. When they once settle down to life it is generally for good ; the conjugal love is similar to what we find in civilized society. The husband in important matters consults his wife. At the time of the marriage of their sons and daughters the consent of both the father and the mother is necessary. There is often a genuine mutual respect between husband and wife. By the legal basis of the marriage the Santal recognises the ownership of the husband individually, as recognised by the mutual besmearing with *Sindur* or red vermillion, but only in a minor degree, that of the family of the husband, over a woman. The Santal wife inspite of her theoretically subordinate position, in practical life has a fair amount of independence and often a position which may be said to be nearly co-ordinate with that of her husband, within her own sphere. The Santal husband and wife carry out the duties towards one another as far as possible in a primitive society. The husband gives clothing to wear, lodging, and board and other necessary things which a wife in a primitive life requires, while the wife feeds her husband by cooking food, for which she collects fuel from the neighbouring forest, and brings water from a streamlet flowing near by. Every morning the wife getting up from the bed cleans the house with mud and cowdung. Over and above that she goes to the agricultural field to help her husband. In the daily social life of the people

the Santal woman has a very independent and strong position both at home and in the village.

Some writers have remarked that the Santal women are looked upon as mere chattel, with which I disagree. Rev. P. O. Bödding is of the same

Position of women. opinion with me (see *Some Remarks on the Position of Women among the Santals*). Such writers have gone too far. Making a tour of almost the whole of the Santal Parganas I got the idea that the Santal women have an important status in their society. Though they are shut off from certain religious and administrative functions their economic status is very high. It is they who generally go to market, make the bargaining—all the produce is in their hand—and they make over the proceeds for the sustenance of the family to the male members. They are the repositories of the moral and religious tradition of the society. All the infringements of social order are brought to the notice of the male members through them.

The relation between the parents and children among the Parents and children. Santals is also of a sweet affectionate type.

How strong the affection of the Santal parents is over their children can be seen from the following facts. The mother or the grandmother of the children always carry the children on their lap even when they go to the *Mela* or to the field. When a child is attacked with any disease the parents become restless, call in the Raranic (Herbal doctor) or the Ojha (Shaman) for curing him.

In the course of my tour in the Santal Parganas, in Illustrations. Godda Damin in the village Sundarpahari, a man one day requested me to see his son who was attacked with some disease. I went there and saw that the mother of the child held him on her lap. The child at that time was pale and anaemic and the very sight showed that he was in a dying state. In the evening of that very day I heard the child was dead. I at once went there and saw a very pitiable sight. The mother held the dead body fast to her

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lap and would not part with it, cried loudly and gave vent to her feelings in the following lamentation song :—

Jare jare dullarya tingdo, ardo okare tahankean tinyia
Indig men keda lenggej menai tingia
Haire haire dhon tingdo akarbo
Tine dine jom ledia
Jara jare dullarya tingdo okakoreye ssuroh baraikan tingia.
Indigo menkidaing jahan beret ketingya.

(*English Translation.*)

Oh me ! oh me ! my beloved one
Where art thou now, my darling.
I said to myself all is well with me
Alas, alas, my treasure, how short a time
 thou wast with us.
Oh, my beloved, oh, my beloved, where hast
 thou found a place ?
I said to myself he will get well again
 Ah me ! ah me !

At the time of parting after marriage the mother of the girl sings the following song which shows how strong is the affection of the mother towards her daughter :

Dash manse kukhimay rakalom
Baro manse danda may rakalom
Ebekaise racabo madiya,
Duyar rahilagigelare thesh
Dosh manse kukhimay rakhalom
Baro manse dandamay rakhalom
Ebekaise rackabo madhiya yayokera
Mayakoise cchora Bore.

Utho dhanichala dhaiga yuth
Dhanichals dhani ghorgo,
Chala dhani yuthi chali jay,
Tilamaka tandi purbhu ghora
Jhinilaga yayokera
Mayakoise cchora Bore.

Baba hipaoyalaug mutha bhari
Taka oyajo bhayahi paopalang
Sursingya barada, mayahin
Paoyalang kanchura kapra jore

Muth bhari taka paoya yudali
 Jai gel surasingya baroda gada
 Shota jay gelo, kanchura kaprajo
 Chhitali jay gelo, matha bhari
 Sindura jo jonome jonome daybhel

(*English Translation.*)

For ten months I kept thee in my womb
For twelve I had thee on my waist
How can I keep thee now? Oh, my daughter,
The house is up to the door full of people.

(Chorus.)

For ten months I kept thee in my womb
For twelve I had thee on my waist
How can I keep thee now? Oh, my daughter,
How can thou part with mother's affection.

I now cite an incident in which it can be seen how + father is attached to his sons and daughters—for the son

sake the father murdered his own mother and mother's sister.

It was alleged that Malta lost a son and a daughter who died of fever some time before the murder. Suspecting that his mother was a witch and was killing his children with her baleful influence, he convened a *panchayat* of the village elders and accused his mother of witchcraft. A quarrel in the family followed, when his mother left his protection and went to her sister's residence in the same village. A few days later Malta went to the residence of his maternal aunt for the treatment of his sick child by her husband Juno, who is a doctor amongst the Santals and stayed there for a few days. On the night of occurrence Malta who had fever himself slept in the same room with his mother, his aunt, his son and the other inmates. But at about midnight Juno the village doctor was roused from his sleep by a certain sounds and noticed that Malta was standing with a pickaxe in hand near the bed where his mother and aunt slept. The two women were lying senseless on the bed with bleeding wounds on their heads.¹

The relation between the elder brother and the younger brother amongst the Santals is very interesting.

The elder brother, specially the eldest one, is looked upon as the representative of the father and after his death is the head and governor of the family. For this reason there are in fact some Santals who look upon the wife of the eldest brother as equal to their mother and pay her respect accordingly. Again the elder brother cannot call by name the wife of his younger brother. (This was verified whenever I asked for the genealogical table of the Santals. I saw that in every case the elder cannot take the name of his younger brother's wife ; he asked others to tell her name.) The *Bakat bahu* (younger brother's wife) cannot touch the shadow of her husband's elder brother.

SEPT AND SUB-SEPT ORGANISATION.

The internal structure of the Santal tribe is singularly complete and elaborate. There are several exogamous divisions called *Parishes* (septs). Ten names were obtained by me at Dumka, Dumka Damin, Godda, Godda Damin, Jasidhi, and Hazaribagh district. In Deoghar I got eleven *Parishes* :

| Sept. | Meaning. | Sept. | Meaning. |
|------------|-------------|-------------|-----------------------------|
| 1. Hansdha | Wild goose | 6. Soren | The constellation Pleiades. |
| 2. Murmu | Nilgai | 7. Tudu | Nil |
| 3. Kisku | Nil | 8. Baske | Nil |
| 4. Hemrom | Betel palm | 9. Besra | Hawk |
| 5. Marandi | Sabai grass | 10. Chonrev | Lizard |

In Deoghar in addition to the above I got one Pauria the meaning of which is Pigeon.

Edward Garnet Man described in his *Santhal and Santhalia* the following twelve *Parishes* of the Santal :

| Sept. | Sept. |
|------------|---------------|
| 1. Hansdha | 7. Besera |
| 2. Murmu | 8. Kedoar |
| 3. Soren | 9. Baske |
| 4. Tudu | 10. Marmorung |
| 5. Marli | 11. Bisra |
| 6. Kisku | 12. Hemron |

Marli, Besera, Kedoar, and Marmorung—these four *Parishes* I could not find anywhere in the Santal Parganas.

Dalton in the *Ethnology of Bengal* divided the Santals into the following tribes :—

| Sept. | Sept. |
|-----------|------------|
| 1. Saran | 7. Tudi |
| 2. Murmu | 8. Baski |
| 3. Marli | 9. Hemrow |
| 4. Kisku | 10. Karwar |
| 5. Besera | 11. Chorai |
| 6. Hansda | 12. **** |

The Karwar, which Mr. Dalton recorded as a tribe, is not a tribe but a sub-sept of the Hansdha sept. He has written the English equivalent of the Santali word *Parish* as tribe, which I think is not proper. In the truest sense of the term it will be a sept.

Sir Herbert Risley has noted the following twelve septs of the Santals :—

| Sept. | Sept. |
|------------|-------------|
| 1. Hansdak | 7. Baske |
| 2. Murmu | 8. Besra |
| 3. Kisku | 9. Pauria |
| 4. Hemrom | 10. Chore |
| 5. Soren | 11. Marandi |
| 6. Tudu | 12. Bedea |

Among the twelve septs, I found Besra, Murmu, Kisku, Tudu, Hansda, Soren, Marandi, Hemrom and Baski in large numbers in the Damin area of the Santal Parganas. The septs Chonrey and Besra are regarded by the Santal as inferior amongst the twelve septs ; that is why the people who actually belong to one of the above two septs, give out the names of the other septs when asked suppressing their own. The sept Bedea is not now found in this area.

The aforementioned septs (*Parishes*) are again sub-divided into sub-septs (*Khunts*). The Santal inherits the sub-septs from the father's line. The sub-septs (*Khunts*) are as follows :—

| Septs (<i>Parishes</i>). | Sub-septs (<i>Khunts</i>), | Meaning. | | |
|--|--|--|--|--|
| Baski | <table border="0"> <tr> <td style="vertical-align: top; padding-right: 10px;"> 1. Nij 2. Sada 3. Nalkekhal 4. Sure 5. Kerwar 6. Loat 7. Mundu </td> <td style="vertical-align: top;"> Oneself Apply no vermilion at the time of <i>puja</i>. Cooked along with rice Means a jungle </td> </tr> </table> | 1. Nij 2. Sada 3. Nalkekhal 4. Sure 5. Kerwar 6. Loat 7. Mundu | Oneself Apply no vermilion at the time of <i>puja</i> . Cooked along with rice Means a jungle | |
| 1. Nij 2. Sada 3. Nalkekhal 4. Sure 5. Kerwar 6. Loat 7. Mundu | Oneself Apply no vermilion at the time of <i>puja</i> . Cooked along with rice Means a jungle | | | |

| Septs (Parishes). | Sub-septs (Khunts). | Meaning. |
|-------------------|---|---|
| II. Besra ... | 1. Bundra 2. Kahu 3 Kara guza 4. Nij 5. Sibla 6. Son 7. Sung 8. Sädä 9. Naïke khil 10. Loat 11. Kahu | Crow There were two blind brothers, from their name this sub-clan begins. A cultivated-fibre yielding plant (<i>Crotalaria juncea</i> D. C.). Creeper |
| . Hasdak ... | 1. Barwar 2. Kedwar 3. Chilbhindha 4. Jihu 5. Nij 6. Sada 7. Rok-Lutur 8. Kara-guja 9. Naïke khil 10. Kahu 11. Sak | Eagle-slayer Babbler, a kind of bird Ear-pierced |
| IV. Hembrom ... | 1. Gua 2. Tahir 3. Kumar 4. Leher 5 Dantela 6. Nij 7. Uh 8. Roh-Lutur 9. Naïke khil 10. Sada 11. Manjhikhil | Areca nut So called from their breeding pigs with very large tuaks for sacrificial purpose. |
| Kisku ... | 1. Abar 2. Ah 3. Kachua 4. Lat 5. Nag 6. Nij 7. Sada 8. Roh-Lutur 9. Somal 10. Naïke khil 11. Son 12. Buru-beret | Tortoise Baked meat in a leaf-plate Cobra Deer |

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| Septa (Parishes). | Sub-septs (Khunts). | Meaning. |
|-------------------|---|--|
| I. Marndi ... | 1. Buru-beret 2. Kekra 3. Manjhikhil 4. Naiké khil 5. Nij 6. Roeth 7. Sada 8. Rok-Lutur 9. Keawar 10. Sidup 11. Khanda 12. Khanda jogao 13. Rupa 1. Bitol 2. Boor 3. Coopier 4. Handi 5. Nij 6. Sada 7. Samak Sari 8. Sikiya 9. Tikka 10. Naiké khil 11. Manjhikhil 12. Laher | Of the hills Crab Worship on the Manjhistan Panjaun tree |
| VII. Murmu ... | 1. Sada 2. Nij 3. Jugi 4. Burchir 5. Manjhikhil 6. Naiké khil 7. Sidup 8. Sak 9. Khanda 10. Tika 11. Mal Soren 12. Rok lutur | Weapon or a Sari Silver Outcasted Fish Small in the hind quarters, as a bullock. Earthen pot |
| VIII. Soren ... | 1. Agaria 2. Chigi 3. Dantela 4. Lat 5. Manjhikhil 6. Naiké khil 7. Nij 8. Sada 9. Boh-Lutur 10. Sung | Chain To put a mark on the forehead To cut |
| IX. Tudu ... | | Give to the puja the thing which they bring by beg- ging. Spearman |
| | | Bundle of straw Conch-shell Those who worship buffalo |
| | | Charcoal burner |

| Septs (<i>Parishes</i>). | Sub-septs (<i>Khunts</i>)- | Meaning. |
|--|--|----------|
| X. Paurid (no sub-divisions found) ... | { 1. Mundu 2. Kahu 3. Sidup 4. Naiké khil 5. Nij 6. Sada 7. Manjhikhil | |
| XI. Chonre = Core (no sub-divisions found) ... | { 1. Naiké khil 2. Kahu 3. Nij 4. Let 5. Manjhikhil 6. Sada 7. Gua | |
| XII. Bedia (extinct) | | |

TRADITIONS OF THE SEPTS.

In *Horkoren Marc Hupramko Reak Katha* of Rev. P. O. Bödding, which is written in Santali language, he has recorded the tradition of the Santal people. In it there is a story that the septs Hansdak, Murmu, Kisku, Hemrom, Marandi, Saren, Tudu, are believed to be descended from the seven sons of the first ancestors, Pilchu Haram and Pilchu Burhi. The five others have been added afterwards as an inferior moiety. As regards the origin of the five additional septs the following stories are told :—The sept Baske at first belonged to the above seven, but by reason of their offering their breakfast to the gods while the Santals were still in Champa, they were formed into a separate sept under the name of Baske. The Besra were separated on account of the immoral behaviour of their eponym, who was called Besra the licentious one. The sept Pauria is called after the pigeon and the sept Chonra after the lizard; and the story is that on the occasion of a famous tribal hunting party the members of these two septs failed

to kill anything but pigeons and lizards, so they were called after the names of these animals. The sept Bedea was left behind and lost when the Santals went out of Champa and is now extinct. They had no father, so the story goes ; the mother of their first ancestor could not say who his father was and for this reason they were deemed to be of inferior rank to the other septs. This sept is believed to have arisen during the time of Mando Singh in Champa when the Santals had begun to come in contact with the Hindus. Some Santals say that the father was a Rajput and the mother a girl of the Kisku sept. Santals are very particular about the honour of their women so far at least as outsiders are concerned and it is quite in keeping with their ideas that a sept formed by liaison with a Diku (non-Santal) should have been looked down upon and eventually banished from the community.

The names of the sub-septs have been collected from my Santal informant Ram Marandi (Parganait of Sundar Pahari of Godda sub-division). It agrees substantially in detail when I checked up the data from Campbell's Dictionary published in 1899. The fidelity of my informant is to be judged from his not being able to mention any sub-sept of Chorey and Pauria which do not occur in that area. The general impression which I gathered from other Santal dignitaries is that the sub-septs did not generally exist. The sub-septs appear at least in this case not to be exogamous units at all ; they rather mark family distinction and traditions, for instance those who would not paint vermillion would be called *Sādā* (white) or those who would be descended from a headman or a priest would be called *Majhikhil* or *Naikekhil*. The sub-septs thus marked an important tendency of the Santal exogamous group either to be divided into sub-groups or sometimes add a sub-group to itself. This alone explains the disparity in number of the sub-septs in the various septs. There is of course a tendency of the sub-septs to approximate to the number twelve according to the pattern of the total number of the septs. But this is by no means the case. Apparently

the one important function of the sub-sept is to distinguish between *Nij* and *Sādā* which occurs in all the septs. This pertains to the use of vermillion and may be due to the important custom of smearing with vermillion on the occasion of marriage and other auspicious ceremonies which once divided the Santals into two groups based on the use and non-use of the vermillion. That this was the uppermost idea in the Santal's mind was forcibly impressed on me while taking their measurements and enquiring of their sub-septs; the majority came out with either *Sādā* (white) or *Nij* (proper). Thus the sub-sept division not being exogamic is not so much a vital part of their social organisation; rather it was a division due to cultural difference. The possibilities are that once either the vermillion was a borrowed culture trait from outside or its use was given up by a section due to some internal reform movement or influence of some superior non-vermillion-using culture. It is more probable that the use of vermillion was more innate to them because the users are called the *Nij* or proper. Vermilion, it may be noted, is used by them only on the occasion of marriage. Among the Bengal Hindus vermillion is not only used in marriage but has to be always worn on the parted hair of the married women, lack of vermillion signifying widowhood. On the other hand in other parts of Hindu India more stress is laid on the use of flowers by the married women. Vermilion is not known in the primitive area of Assam. Thus it is probably a vital part of the culture of Chota Nagpur tribes.

NOTES ON SUB-SEPTS.

Tha-ok Sub-sept.

Whenever any ceremony (religious) occurs the members of this sub-sept sacrifice a goat or a pig in their houses, and they shut the doors tight and allow no smoke to escape,

Māl Sub-sept.

They may not utter the word *Māl* when engaged in any religious ceremony or when sitting on a *panchayat* to determine any tribal question.

Jihu Sub-sept.

They may not kill or eat the *Jihu* or babbler bird, nor may they wear a particular sort of garland known as *Jihu Mālā* from the resemblance which it bears to the babbler's eggs. The *Jihu* is said to have guided the ancestor of the sept to water when he was dying of thirst in the forest.

Sankh Sub-sept.

They may not wear shell necklace or ornaments and are forbidden to eat, carry, cut or use shell.

Jugi Sub-sept.

They smear their foreheads with vermillion at the harvest festival and go round asking alms of rice. With the rice thus collected they make cakes which they offer to the gods.

Manjhikhil Sub-sept.

The members of this sub-sept are descended from the *Manjhi* (headman of a village) i.e., their ancestor was a *Manjhi*.

Naikekhil Sub-sept.

The members of this sub-sept claim descent from a village priest.

TOTEMISM OF THE SANTALS.

The Santals as mentioned above are divided into a number of septs and sub-septs mostly named after some animals, plants, fruits or other material objects. It is now worth enquiring how far the septs and sub-septs have totemic relations with such things. Totemism, in the truest form is not present amongst

the Santals. The Santals of our days do not believe in the actual descent of a clan from its totem, and the few legends of the Santals about the origin of some of their clans do not point to any belief in the descent of men from their totems. All that they indicate is that the totem animal and plant had had some accidental connection with the birth of the ancestor of the clan. As for example the sept Pāuriā is called after the pigeon and Chōre after the lizard ; and the story is that on the occasion of a famous tribal hunting party the members of these two septs failed to kill anything but pigeons and lizards, so they were called by the names of these animals.

As with other totemic people a Santal also abstains from eating, killing, hunting or destroying the animal, plant or other objects that form his clan totem. Eating, killing, hunting, and destroying one's clan totem is regarded by the Santal as equivalent to killing a human member of his own clan. The idea of brotherly feeling between the members of the same clan is present among them. The marriage between persons of the same clan is considered incestuous which may be taken as a confirmatory test of the above idea.

Descent, of the Santal, is always reckoned in the male line and a man has the same totem as his father ; the totem of the mother's father's line is not respected. As a female has no clan of her own, she is not a recognised member of her father's or of her husband's clan and has not therefore to observe the taboos relating to their totems. But actually the Santal women do not kill any totem animal or any totem plant, just as their husbands do not kill or destroy any totem animal, plant and other object.

Individual or sex totem is unknown to the Santals. Their totem is hereditary and not acquired. The members of a clan do not wear any distinguishing emblem or peculiar dress nor have they representations of their totem cut or tattooed on their persons or curved or painted on their houses or any personal belongings.

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TERMS OF RELATIONSHIP.

| English. | | | | Santali. |
|----------------------------|-----------------|---------|-----|-------------------------------|
| Father's father | { | ... | ... | ... Gorom apum |
| Mother's father | } | | | |
| Father's mother | { | ... | ... | ... Gorom ayo |
| Mother's mother | } | | | |
| Father | | ... | ... | ... Apum |
| Mother | | ... | ... | ... Ayo |
| Father's elder brother | | ... | ... | ... Gongo apum |
| His wife | ... | ... | ... | ... Gongo ayo |
| Father's younger brother | | ... | ... | ... Hopon apum |
| His wife | ... | ... | ... | ... Hopon ayo |
| Father's sister | ... | ... | ... | ... Hatom |
| Father's sister's husband | | ... | ... | ... Kumari |
| Mother's brother | | ... | ... | ... Mama |
| His wife | ... | ... | ... | ... Hatom or Mami |
| Mother's sister | { | elder | ... | ... Maran ayo |
| | } | younger | ... | ... Kaki or Hopon ayo |
| Their husband | | ... | ... | ... Kaka |
| Wife's father | ... | ... | ... | ... Honhar baba |
| Wife's mother | ... | ... | ... | ... Honhar ayo |
| Mother's sister's son | { | ... | ... | ... Same as for own brother. |
| | ,, brother's .. | } | | |
| Mother's sister's daughter | { | ... | ... | ... Same as for own daughter. |
| | ,, brother's .. | } | | |
| Husband | ... | ... | ... | ... Herel |
| Wife | ... | ... | ... | ... Era or Orak-hor. |
| Wife's brother | { | elder | ... | ... Baho'nhar |
| | } | younger | ... | ... Erwelin |
| Wife's sister | { | elder | ... | ... Ajhnarin |
| | } | younger | ... | ... Erwelin |

| English. | | | Santali. |
|-----------------------------|---------|-----|--------------------|
| Husband's elder brother | ... | . | Maranic Bahotharic |
| Husband's sister | elder | ... | Ajhnarin |
| | younger | ... | Erwelin |
| Wife's sister's husband | .. | .. | Sadgea |
| Husband's brother's wife | elder | ... | Ajhnarin |
| | younger | ... | ,, |
| Husband's father | ... | ... | Honhar baba |
| Husband's mother | ... | ... | Honhar ayo |
| Elder brother (M. S.) | ... | ... | Dada |
| Younger brother (M. S.) | ... | ... | Bokom |
| Elder brother (W. S.) | ... | ... | Ba hon'har |
| Younger brother (W.S.) | ... | ... | Erwelin |
| Elder sister (M.S.) | ... | ... | Ajhnarin |
| Younger sister (M.S.) | ... | ... | Erwelin |
| Elder sister (W.S.) | ... | ... | Ajhnarin |
| Younger sister (W.S.) | ... | ... | Erwelin |
| Father's brother's son | ... | ... | Baktata |
| „ „ „ (younger) | ... | ... | Eya |
| Father's brother's daughter | ... | ... | Doi |
| „ „ „ (younger) | ... | ... | Paku |
| Father's sister's son | ... | ... | Same as above |
| Father's sister's daughter | ... | ... | Same as above |
| Daughter's husband | ... | ... | Jawae |
| Son's wife | ... | ... | Bahu |
| Son's son | ... | ... | Gorom Kora |
| Son's daughter | ... | ... | Gorom Kuri |
| Daughter's daughter | ... | ... | Same as above |
| Daughter's son | ... | ... | Same as above |

M.S.—Male speaking.

W.S.—Woman speaking.

MARRIAGE.

It is strictly forbidden for any Santal to marry within his own sept (*Parish*). He may marry into any other sept or sub-sept to which his mother belonged. Among the Santals there is a custom that a Santal can marry a girl who is three *kursis* (generations) apart.

There are some septs which never intermarry with one another in consequence of some ancient feud between them. A Hāsdak male or a female never marries a Murmu female or a male respectively. Similarly a Tudu male never marries a Besra female and *vice versa*. An old Santal of Tudu sept told me the following tradition explaining why intermarriage is not allowed between the Tudu and Besra septs.

Once a woman of Besra sept fell in love with a Tudu man, but the man did not agree to marry as the Besra sept is lower. Then the relatives of the man and woman made an agreement that if between the fight of their sept-animals, buffalo and cock, the cock would lose its life then there would be marriage but if the buffalo would die then there would be no marriage. Then on the fixed day before the relatives of the both sides this fight took place. The headman of the village holding the pointed horn of the buffalo in one hand and the cock in another asked the permission of the men on both sides, and when they gave an answer in the affirmative, he let them loose and a fight then ensued between the cock and the buffalo. In the fight the cock took out the two eye-balls of the buffalo with its pointed bill, in consequence of which the buffalo lost its life. Thence no marriage was allowed between the two septs. But now no such restriction can be found.

Girls are married as adults mostly to men of their own choice. Sexual intercourse before marriage is tolerated; but if a girl becomes pregnant the young man is bound to marry her. Should he attempt to evade this obligation

he would be severely punished by the *Jogmanjhi* and in addition to this his father would be required to pay a heavy fine.

In Santal marriage there is no restriction of age. The bride may be younger, older or of equal age with the bridegroom. The usual practice is that the parents on both sides will select the bride and bridegroom. Generally it happens that some relatives of the bridegroom, when they go to some village for some business and find a suitable bride, inform the parents of the bridegroom that in such and such a village there is a suitable bride ; if the son is given in marriage with her, it will be a good match. After that a *raibar* (marriage-broker) is appointed by the bridegroom's parents and he negotiates the marriage between them. The usual place of selection of brides for the Santals is the market. I saw personally a selection in a market at Katikund village within Dumka Damin. On the outside of the market a bridegroom with his relatives stood in a row and the bride with her relatives stood in another row face to face about four feet apart ; then one of the females on the bride's side approached the bridegroom and rubbed mustard oil on his face and gave him some fried rice and the woman saluted all those who were there. The same thing was repeated by a woman of the bridegroom's side to the bride and her relatives.

The parents of the bride go to the village of the bridegroom to enquire into his property and pecuniary condition.

Then *Horok'chikna* and *Jawaidhuti* ceremony take place. The father, other relatives and co-villagers of the bride come to the house of the bridegroom and dress him with a new piece of cloth and a turban and give him some coin which varies from annas four to one rupee. They then take their meal, drink *pachawee* (rice beer), sing songs with *madals* and cymbals, after which they come back. The bridegroom's father goes with the relatives, takes the girl and seats her on his thigh, gives her a solid brass necklace and kisses her.

Then comes *Takachal*, i.e., payment of bride-price. Generally the bride's father demands twelve rupees now-a-days. This

bride-price is divided between the following persons :—

Father of the bride gets Rs. 8.

Mother of the bride gets Rs. 5.

Mother's mother gets Rs. 2.

Father's mother gets Rs. 2.

The brother of the bride will get from the bridegroom a bull; if the bridegroom's father fails to give the bull then he pays Rs. 2 in exchange. The headman of the bride's village gets from the father of the groom one rupee. From that rupee the headman pays annas eight to the *bariatko* (those who follow the bridegroom to the bride's house). Previously there was a custom to give rice and *Pachawee* and not cash.

The next function is to fix the day for marriage. The Santals give their sons and daughters in marriage generally in the month of *Baisakh* and *Phalgun*. It is their custom not to marry their children in the month of birth. Through the *Raibar* the bridegroom's father sends a string with a number of knots on it. The number of knots indicates the number of days. The father of the bride therefore getting the string understands that the bridegroom's father wants to fix his son's marriage as many days afterwards as the string contains knots. Now, if the father of the bride agrees, he sends the same number of knots on another string to the bridegroom's father by the *Raibar*, but if he wants to have his daughter's marriage earlier or later he sends more or less knots on the string as the case may be.

Then comes the *Mandwa* ceremony which may take place on the marriage day or one or two days earlier. For this they build a temporary shed. This is a rectangular shed with a strong central post which is called *Mandwa khunti*. This shed is erected by the young men of the village who are known as *Mandwa kora*. *Puchawee* and boiled rice are given to those young men both at the time of building and at the time of

removing it after marriage. This shed is erected both in the house of the bride and bridegroom. The *Jogmanjhi* brings five *kumaris* (unmarried girls) to rub oil on the following persons within the *Mandwa* shed in the following order : *Naike* and his wife, *Kudam naike* and his wife, the headman and his wife, the *Parāmānik* and his wife, the *Jogmanjhi* and his wife, the parents of the bride and bridegroom, as the case may be. Last of all, in the hands of villagers who may be present there only mustard oil and turmeric is given.

Then on the appointed day the bridegroom with the *bariatko* (friends, relatives and villagers) starts for the bride's house in the afternoon. When they reach the village of the bride, they wait outside the village in a field, and they are cordially welcomed by the bride's father and relatives. Dancing and music were already going on there, tum tums, *madals* and cymbals being beaten more than ever. The bride wearing a new cloth stands a little apart by the side of the bridegroom. The bridegroom's younger brother, an important personage in the scene, stands on his left side and the whole party stands on the road just at the entrance to the village. A large crowd of village females, each bearing a brass basin containing a lump of coarse molasses and a *lota* filled with water stand there. Upon the usual greetings being offered which consist of all bending down respectfully and touching the ankles of the happy group, the elder women step forward and each in turn taking a large pinch from the molasses thrusts it first into the bride's mouth with her fingers and thumb, after which she holds the *lota* of water for the bride to drink from and then pours a little of the water over her feet. The same ceremony is performed on the bridegroom and his brother. The dancing and music are kept up without cessation during this performance and many torches are also lit. After this, three women—the mother, the elder aunt and the younger aunt of the bride—come out of the crowd and take the bridegroom, his brother and the bride away with them into the village followed by other attendant girls and

women who amuse themselves with cutting jokes on the blushing bride. All then proceed to a clean house washed spick and span which the *Joghmanjhi* of the village has made ready. On its threshold stands a young and graceful maiden with a lighted taper in her hand awaiting their approach all alert and she stands there for an hour after the pair come in. She is generally the younger sister of the bride, in absence of whom her cousin does this function. Here the carriers drop their burdens and after salutation the same cleaning and washing of feet is undergone when they are again taken up and deposited at the next house and this goes on through the whole village.

It is well nigh midnight before all these preliminaries are settled. The bridegroom's father takes with him food for the *bariatko* who in the meantime have their fill. Then if there be excess of money all the villagers get a share of it. This payment is given on their leaf-plates. In the feast the outcasts serve salt, which is the most important function in the ceremony. After the feast an old Parganait says "From to-day we have taken them into our society again, all pollution has been washed away. We shall take food in their houses, we shall give them our daughters in marriage and also take their daughters for our sons, etc." Thereupon they dig a small hole in the earth in which they bury a lump of cowdung and put a stone on top, thereby symbolizing that the matter is buried for ever. Thus the man and woman become Santal again. The wedding party then adjourns to the house of the bride. The bride then is put into a basket and her male relations lift her up and the bridegroom is raised upon the shoulder of her eldest brother ; thus he meets her and applies vermilion on her forehead five times with a horizontal stroke. This part is the most important of the whole function of the marriage ceremony. Then paddy and grain are showered over her.

Then the wedding feast begins. The *Jogmanjhi* who is in charge of this makes the food ready which consists of goat's flesh, pork, fowl, boiled rice and large earthen pots filled with

pachawee. All the villagers, both male and female, young and old, eat to their hearts' content.

Next day the bride and bridegroom and a few female relatives of the bride come back to the house of the bridegroom. The female relatives remain there with the bride that night. Next day after a good feast they come back to their village. To all the villagers of the bridegroom's party he gives a feast which ends the marriage ceremony.

Besides this there are other forms of marriage by which the Santal lovers may be united in the bonds of matrimony. These are as follows :

1. *Kudam Bapla*.

If a girl becomes pregnant, the young man by whom she becomes so is bound to marry her. The procedure for this kind of marriage is as follows :

The young man informs the *Jogmanjhi* of his offence and the girl confesses to the wife of the *Jogmanjhi*. Then the *Jogmanjhi* informs the matter to the headman of the village and also to the parents on both sides. The bridegroom pays twelve rupees and a bull for the bride-price. The *Jogmanjhi* then takes this couple to the house of the bridegroom's parents with the headman and some other villagers. There they fix the date of the marriage. Then on a fixed day in the house of bridegroom the latter applies vermillion to the forehead of the bride ; the bridegroom at the time of applying vermillion stands facing west and the bride facing east.

2. *Ghardi-jawae Marriage*.

This kind of marriage is resorted to when a girl is the only child of her parents. When a man has minor sons and grown-up daughters he procures a *ghardi-jawae* to get help in his agricultural work. When a girl is ugly or deformed and there is no prospect of her being asked in marriage in the ordinary way,

this form of marriage takes place. Usually a man seeks a wife for his sons ; here it is the opposite. All expenses of marriage are borne by the father of the girl. At an ordinary marriage the bridegroom's friends are called *bariatko*; here it is the friends of the bride that are called so. In this kind of marriage the bridegroom pays nothing for his bride but lives with his father-in-law and works for him without wages for five years. At the time of marriage the girl's parents give the young man a calf. This becomes his personal property. The girl also gets a calf at the time of marriage. She is further permitted to get "*arpa*," i.e., reap a few sheaves of paddy for herself. If a man wishes his *ghardi-jawae* to become his heir this has to be specially arranged and publicly declared and such is done at the time of marriage. When a man procures a *ghardi-jawae* to get help in his agricultural work, in such cases the girl's father will set aside a bit of land for this *ghardi-jawae* and will help him to get additional land. When the five years of service are over, the *ghardi-jawae* is free to depart.

3. *Itut Marriage.*

This is adopted by forward young men who are not quite sure whether the girl they fancy will accept them, and take this means of compelling her to marry. The man taking some vermillion on his fingers watch his opportunity at the fair or on any similar occasion, marks the girl he is in love with on the forehead and claims her as his wife. Doing this he runs away at full speed to escape from the thrashing he may expect at the hands of her relations if he is caught on the spot. In any case the girl's relatives will go to his village and will obtain from the headman the permission to kill and eat three of the goats of the offender or of his father and a double bride-price must be paid for the girl. The marriage is however legal and if the girl still declines to live with the man, she must be divorced in full form and cannot again be married as a spinster..

4. *Nirbolok Marriage.*

This form may be said to be the female variety of 'Itut.' A girl, who cannot get a man whom she likes in the regular way, takes a pot of rice-beer (*pachawee*), enters his house and insists upon staying there. They do not adopt any physical force to expel her from the house. It is said to be quite fair and usually effective to throw red pepper on the fire as by inhaling the smoke she is compelled to run away, but if she passes this endurance test without leaving the house, she is held to have won her husband and the family is bound to recognize her.

5. *Sanga Marriage.*

Sanga marriage is equivalent to the *Nika* system of the Muhammadans, which is used for the marriage of widows and divorced women. The bride is brought to the bridegroom's house with a small party of her own friends. The binding portion of this form of marriage consists in the bridegroom taking a *Dimbu* flower, painting it with *Sindur* with his left hand and with the same hand sticking it in the bride's coiffure.

6. *Kiring-jawae Marriage.*

This form of marriage is comparatively rare. When a girl becomes enciente by illicit connection with a man of her own sept, some one is induced to become her husband in order to avoid the scandal. For this sacrifice he gets two bullocks, a cow and a quantity of paddy from the family of the man by whom the girl is made pregnant. The headman calls the villagers together and declares the couple to be man and wife in their presence and instructs the girl to live with him and be faithful to the husband that has been provided for her.

DIVORCE.

Divorce is a common sequel to the Santal marriage. Divorce is allowed at the wish of either husband or wife. If neither

party is at fault, the one who wants a divorce is expected to bear the expenses. In this case the husband cannot claim the bride-price originally paid and also has to pay a fine of Rs. 5 and give the woman a piece of a cloth. If, on the other hand, it is the wife who demands divorce without just cause, her father has to refund the bride-price to her husband. If adultery is proved against her the co-respondent is called a thief and has to pay Rs. 60. If the man is guilty, the bride-price is forfeited. Barrenness is one of the common causes for the divorce. In this case the husband has to pay the penalty. The divorce is effected in the presence of the assembled villagers by the husband tearing asunder three *sal* (*Shorea robusta*) leaves in token of separation and upsetting a brass pot full of water.

BIRTH AND NAMING CEREMONY.

Immediately a birth is announced there is a gathering of friends and relations for congratulating the parents and on the third, fifth or seventh day there is a purification ceremony which really consists in nothing but shaving off the hair the child may have on its head ; until this is done it is considered unpropitious to engage in any *shikar* or hunting expedition or religious ceremonies. In many villages it is strictly prohibited.

When the purification has been completed the women and children of the village who have assembled at the house receive each a leaf-cup full of rice-water with which the leaves of *Nim* have been mixed. After this they all take a draught of their home-brewed liquor and depart.

Upon the fifth day the child receives its name. Should it happen to be a son and heir he takes the name of his grandfather ; should he be the second son born, he takes that of his maternal grandfather ; and thus the paternal grandfather's brother for the third boy, the maternal grandfather's brother for the fourth boy and so on. The same procedure is followed for girls, the feminine relations being in the same order from the female side.

CHACHO CHHATIĀR.

It is a very important ceremony of the Santals, which enables anybody to take his place in Santal society and participate in its rights, rules and ceremonies. Without this no Santal can be married nor cremated; if anybody died without this ceremony he is buried. There is no age limit for this ceremony, only it must precede marriage. Generally the Santal performs this ceremony on several children at one and the same time.

The father of the children brews *handi* (rice beer) and provides oil and turmeric for the villagers. One morning the father calls the *manjhi haram* and *parāmānik* and gives them *handi* to drink. After drinking *handi* the headman orders the *goddet* to call the villagers together. Five girls (unmarried) of the village anoint first the *naike* and his wife on a mat with oil and turmeric, next the *kudam naike* and his wife, then the *manjhi-haram* and his wife and then all the officials and their wives. Last of all the women of the village are anointed. Then *handi* is served in leaf-cups to all the officials and the villagers, and for each child four small leaf-cups are given to all those present. Then they ask the father, "How many boys and girls have you?" On receiving an answer they ask again, "Where is the land?" The father tells them where the namesakes of the children live, whereupon they call for "namesake *handi*," i.e., beer which the namesakes present have brought with them. The people then sing special songs and dance.

A man, who in a way officiates for the father, now begins to cite mythical historical tales. He starts with the creation of the earth and relates the Santal history of mankind, their wanderings, etc., according to tradition, and how they finally settled and multiplied. Thereupon the man on behalf of the family says, among all other things, "We implore you to let us be with you to brew and drink *handi*, to fetch water on the marriage day, on the *chhatiar* day and on the day of cremation. We

were like crows, we are become white like paddy birds. You villagers be our witness.' The festival is concluded by further drinking and singing *chhatiar* and other songs.

ADOPTION.

Among the Santals to adopt a child is of rare occurrence. Dr. Campbell says they do not practise adoption. Rev. P. O. Bödding is of opinion that adoption is present among the Santals. I have also heard of one or two instances of adoption in the Damin area of the Santhal Parganas.

If a man takes a second wife and this woman has a boy by a former husband, the man may adopt this boy. He proceeds in the following way : He first informs the village headman, then calls the nearest male relatives of the boy whose consent is necessary. If they agree they say so in the presence of the headman and the villagers of the village where the man, who will adopt the boy, lives. Then the male relatives of the boy renounce him and declare him henceforth to belong to the new father ; it is also declared that the boy shall have no right of inheritance in the property of his natural father. When all these are done the adopting father fixes a date for the formal adoption of the boy. The villagers of that village on that day behave as at *Janam Chhatiar* (name-giving ceremony of the Santal child). They shave and drink *handi* (rice beer). The usual procedure in a *Janam Chhatiar* is that there the officiating midwife tells the assembled people the name of the new-born child ; here she does not tell the name of the boy but the sept or sub-sept of the adopting father ; henceforth that becomes the sept of the boy. Thereupon they leave the boy to eat the flesh of animals sacrificed to the tribal deities. Henceforward the boy becomes one of their own.

BITLAHA.

It means to outcast a Santal from society. This out-casting takes place by the order of the assembled members of

the *Panchayat*. It is resorted to when a Santal woman indulges in sexual intercourse with either a *diku* (non-Santal) or with a person of the same sept. If any one commits such an offence the headman of the village in question calls his neighbouring colleagues together and informs them of the matter; if the people hold that the case is not proven, then those who started the rumour are severely punished. If it is proved, the assembly gives an order for outcasting and they proceed to carry it out the day after the annual hunt. The date of this *Bitlaha* is announced by a man in the market by carrying a branch of Sal tree (*Shorea robusta*) containing leaves. The people in the market on seeing him understand the matter and count the leaves of the branch (each leaf of the branch means a day) because as many leaves as it contains so many days afterwards this *bitlaha* is to take place. During this operation the *Parganait* of that bungalow and even the Sub-divisional officer of that district are generally commissioned to superintend so that nothing untoward happens. One such outcasting I saw personally about two years ago at Dumka within the Santal Parganas.

In the early morning of the appointed day the bachelors and other male members of the neighbouring villages with flutes, drums, bows and arrows meet at the end of the village street where the culprit lives. The bachelors compose extempore obscene songs in which he is mentioned by name. Drumming is kept up so terribly that the sound can be heard for miles around. At a sign from the leader the crowd with wild yells and lifted hands holding bows rushes towards the village with him, drumming and blowing their flutes loudly and singing obscene songs. The women of that village do not remain there ; they fly away to some other place to keep their prestige.

When the crowd reach the house of the offender they tie a short charred bit of firewood, a worn-out broom and some used-up leaf-plates on a long pole of bamboo and fix it at the entrance to the courtyard. Within the courtyard they break the

fireplace and all things and even sometimes break the house. Young men in undress desecrate the rooms.

The persons outcasted are not allowed to take food with others, they cannot give their children in marriage within the Santal community. The parents of both sides also would be outcasted, and those who give shelter to these outcasts will be treated like that.

JAM JATI.

By performing this ceremony an outcasted Santal is accepted in society. It is done in the following way :

When both the aggrieved parties are ready to provide the necessary money for the performance of this ceremony they inform the *Manjhiharam* who again informs the *Parganait* of the *bungalow*, and the latter makes it known to the *Parganaits* of other neighbouring *bungalows*. Then a day is fixed for the performance of this ceremony and the person who is to be re-admitted prepares a big feast. Then the outcasted man and woman go out to the end of the village street with a twisted cloth round their necks, and water in a *lota*. To the *Parganaits* and the village chiefs the offenders acknowledge their offence and pray to them, "Have pity on us." The *Parganaits* and the chiefs say, "Since you have acknowledged your offence we do now take and carry all that for you." Then the outcasts take a little water and wash their mouths with it and pass the *lota* round to all the leading men, who do the same. After this they enter the village and the courtyard of the outcasts who personally wash the feet of the leaders of the people. All then sit down in rows to eat, leaf-plates being put before them. On the leaf-plates of the *Parganaits* Rs. 10 is put, on the *Desmanjhis'* plates Rs. 5 and on those of the headmen also Rs. 5.

DISPOSAL OF THE DEAD.

When a person is dying they generally keep the doors open, as the Santals prefer to have the spirit of the departed wandering

about outside the house than taking a permanent abode inside. This is probably one of the reasons why the *Manjhishthan* is built, as it affords a residence to the manes of the departed ; although this *Manjhishthan* is built before the house of the headman of a village yet it seems that the spirits of all deceased villagers are commonly considered to congregate there.

After death the body is carried away on a bedstead by the relatives and villagers who cover the dead body with a new piece of cloth, in one corner of which one or sometimes two rupees are tied. When they reach a cross road some parched rice and cotton seeds are scattered about as a charm against the malignant spirits that might throw obstacles in the way. On that cross road they wait for an hour and the women and relations lament over the deceased. They carry this dead body to the bank of a streamlet near by. The clothes, brass utensils and weapons of the departed are brought with the dead body. These things are sold at half price near the pyre. The pyre is prepared with the wood which is brought from the jungle near by. Before placing the dead body on the pyre, the heir of the deceased with his face averted and walking backwards inserts a piece of grass between the lips of the dead man and places a silver coin in his hand. The dead body with the bedstead is placed on the funeral pyre and a small chip is taken off the collar-bone and deposited in a new pot and the heir then applies fire to the dead body by placing a piece of burning wood on the face of the corpse. Before setting fire to the body it is covered with a branch and four pieces of wood are put on it. A fowl is taken round the pyre thrice and is finally nailed to the south-west corner pole. After the heir had placed a piece of burning wood on the dead man's face, all the relatives and others present throw a log on the pyre and proceed to kindle it. The people sit at a distance and watch the body being consumed. The pot in which the chip of collar-bone is kept, is then buried outside the village. Then they shave and bathe and before they enter the village incense themselves with *sāl* resin. The men who carry the dead man and also who

accompany the dead to the cremation ground drink *handi* bought with the money realised from the dead man's articles. Coming back after consuming the body they hang a pot of leaves in the room where the man had breathed his last. In a cup they put some boiled rice and above the rice they place another pot of leaves containing fried fish. If the next morning some boiled rice can be seen on the fish then they think the spirit of the departed came and partook of a portion of the rice. But if no rice can be seen then they think that the spirit did not at all come there. In this case they believe that something of the departed is left with them, that is why the spirit has not come.

Five days afterwards there is a ceremony called *Tel nāhan*. All the villagers assemble at the dead man's house and shave. Then they go and bathe, the men in one place, the women in another. The men take with them a little earth (used as soap), oilcake, oil, three *sāl* twigs (used as tooth-brushes) and a couple of leaves. The villagers put these at the edge of the water on three separate leaves, and offer all with the left hand first to the dead, then to *Pilchu Hārām* and *Pilchu Burhi* (first man and woman). The last two are invoked to take the dead man under their care. The Santals keep a little bone to throw it in the water of the Damodar river. There is no fixed time for taking the bones to that river. It is the custom of the Santals to wait until a sufficient number of their relatives have died. Along the river there are several *ghāts* where the relative who has brought the bones offers earth and tooth-brushes to the departed and to *Pilchu Hārām* and *Burhi* after he has thrown the bones, etc., into the rivers. He goes into deep water and facing east dives; whilst under the water he lets the bones go. The last function is known as *Chandān*. On the floor of the room where the man breathed his last the eldest son puts a quantity of *adwa* rice over the plate of *Sāl*-leaves. Then a he-goat is cut by holding the neck over this rice and the blood which falls on them is mixed with the rice properly. All the members of the house take a little of it by taking the name of the departed. Then a great feast is given

by the sons of the departed in which all the relatives and villagers join. When this is over the mourners can resume their ordinary life; but till then they can neither sacrifice nor use vermillion; nor can marriage or any other ceremony take place in the village.

When a little child or a pregnant woman is dead the Santals bury the corpse. After the death the female relatives and villagers, taking a little mustard oil and turmeric (crushed), rub it on dead body covering it with a new cloth, all utensils and other objects of the departed being carried to the burial ground. When they reach the destination they place the bedstead in such a way that the head of the dead body points towards the south. A branch of the *Mowah* tree is put on the bed near the head. The hole is made north to south. All those who accompany the dead do not forget to take a pot with water from the house of the departed and a rupee. All then taking a little water from the pitcher and the rupee touch the hands, feet and mouth of the corpse. They place the body within the hole ; all those who are present there take a little earth and put on the mouth of the dead uttering the following words :

Mā taba khān tahi khanad āla khanem bagaranā
Onāta nsa sanām ko hāsāla amām kūnā
Alaho Jaman bis bādala taken mā.

(English Translation.)

You have been separated from us that is why I am giving a little earth to you. Please see that we may remain in good health.

Then cover the hole with the earth. The relatives take a little earth from the burial ground and a nail from the dead body, they then throw these to the Damodar river. In the case of the pregnant woman they insert an iron nail in the sole of the foot. The reason of this is that *Churin bhut* may not come out from the grain.

CHAPTER III

SANTAL LAWS AND GOVERNMENT.

It is too early yet to disentangle the various cultural elements which have set their stamp on the village organisation of different parts of India. Socio-economists and students of primitive law are greatly indebted to Prof. Radhakamal Mukherjee for trying to pierce through the veil that surrounds the beginnings of Indian primitive political and juridical institutions by a culture-strata analysis. In his illuminating paper¹ he first of all describes the system in which perhaps the most primitive elements have survived such as the Khond type, mainly characterised by tribal system in a village. The second, the more advanced type, is to be found according to him among the Mundas and the Oraons of Chota Nagpur characterised by tribal government and an agrarian distribution under centralised control. A still more advanced type would be that found among village communities of the Malabar with democratic tribal traditions overlaid by feudal and monarchical tribal tendencies and found in all complexities amongst the most interesting matriarchal Nayars, though there are many patriarchal tribes in Cochin, Travancore and Coorg. Lastly came the fourth type, the Indo-Aryan. The Munda-Dravidian village constitution is contrasted with the Indo-Aryan system. Later on he has found out another type which he calls Mongoloid (which might be termed the Assam type) and he has further differentiated the Indo-Aryan type from N. W. India into the Afghan and Beluchi sub-types. Thus we have the regional economic types of (1) Assam,

¹ R. K. Mukherjee, Village Communities in India, *Man in India*, Vol. III, 1923, pp. 1-27.

(2) Chota Nagpur, (3) Malabar, and Madras (4) and N.W. India, which possibly spread over the rest of India along with Aryan conquest and colonisation. It is quite likely that there would be many sub-types in each. In the Festschrift presented to Pater Schmidt, we have a division of the cultural strata of India into the Ur-folk of Palaeolithic time, the Dravidians with Neolithic shoulder-celt culture and the Aryans with copper or iron, succeeding each other chronologically. Giuffrida-Ruggeri's ethnic stratification of India gives us the Negritos, the Australoid Vedda, Dravidians and different Indo-Aryan races succeeding each other chronologically. Prof. Von Eickstedt's classification gives us interesting zonal ethnic types such as (1) the Veddoid, or Palaeo-Indian, the most primitive group with two varieties, namely Malidae from Northern jungles and Gondidae from C. P. and Chota Nagpur, and (2) the non-Negroid Melanid group with the sub-type of Kolidae followed by two advanced groups of Indidae and Brachydae.

Thus a cultural analysis of a Santal village administration would pave the way for a clear understanding of the economic and political stratification and their history and evolution in ancient India and what was the real contribution of the Assam, Chota Nagpur or Malabar and Madras or N. W. Indian type to it. The Santal type follows closely what has been described as Munda-Oraon constitution ; as the Santals are linguistically and culturally, if not physically, closely akin to the Mundas, Hos, etc., though the Oraons are linguistically quite different.

SANTAL ADMINISTRATIVE OFFICERS.

Manjhi (Headman).

The basis of the Santal communal system is the village. Santals will never settle alone in an uncultivated area ; they go there in a body and settle with a leader and his assistants. The leader is known as *Manjhi* (headman), being chosen by the village people to administer the rights, rules and ceremonies of the

Santal village community. No public sacrifice, no festival, no ceremony such as marriage can properly be done without the *Manjhi* taking the lead or initiative. The *Manjhi* is the representative of the village both in external and internal affairs. He also collects rents from the villagers. If the headman of a Santal village be other than a Santals (such as Kumar or Bauri) which sometimes happens, the Santals will have for themselves an official called *Handi Manjhi* who performs all the duties of the Santal village except collecting rent and other work demanded by the government.

Assistants to the Headman—Parāmānik Jogmanjhi

There are two assistants to the *Manjhi*: one is *Parāmānik* and the other is the *Jogmanjhi*. The *Parāmānik* is the principal assistant and representative of the *Manjhi* by whom he is chosen. If the *Manjhi* dies without any male issue or brothers then the *Parāmānik* will get the office. In his (*Manjhi's*) social functions the *Manjhi* is assisted by the *Jogmanjhi*. His duty is to prevent sexual intercourse in the same sept and also with a *diku* (non-Santal). If a girl becomes pregnant the *Jogmanjhi* has to find out who the culprit is. If he does not, the villagers tie him with the rope used for tying a buffalo to a pole in the cowshed of the *Manjhi*, and scold him and fine him. At the time of *Sohrāe parab* all the villagers, young and old, male and female, drink *handi* (rice beer). Singing, dancing and other entertainments go on without restriction for five days and nights and at these times the boys and girls remain in charge of the *Jogmanjhi*. At the birth of a child and at marriages he is in charge of those ceremonies, and when the village youths attend a night festival he is in charge of them. Formerly he had a very important position though now gradually he is losing all authority; but the young people still use him as a safe repository of their secrets. The *Jogmanjhi* has an assistant called *Jog-Parāmānik* who officiates when he is absent.

Village Beadle—Goddet, (Gorait—Risley).

Next in rank is the *Goddet*, an orderly or peon of the headman of the village, who calls the villagers together at his command and also collects sacrificial fowl for the village sacrifices. Whenever any foreigner comes in the village and enquires about the headman, the *Goddet* at once runs and informs him. (One morning I went to a village at Katikund within Dumka Sub-division. I asked the villagers where the headman of the village was. The *Goddet* said he was in the agricultural field and at once ran to call him. He then came back with the headman to me.) The Santals call the *Goddet* *Marang Manjhi*, i.e., great chief, and there are many instances of *Goddets* having ousted a *Manjhi* or even a *Parganait*. If a *Parāmānik* gets the office of *Manjhi* it is considered proper that the *Goddet* should become *Parāmānik*.

Federal Officers (Parganait) and Assistant Federal Officer (Deshmanjhi).

A *Parganait* is an officer who is in charge of several villages collectively known as *bunglow*. (For administrative purposes several villages are grouped together in what is now known as a *bunglow*. The number of villages contained within each vary in every case. The place where I worked, the Sundarpahari *bunglow*, within Godda sub-division, consisted of the following 28 villages—

* *Villages of Sundarpahari Bunglow.*

- | | |
|---------------|-------------------|
| 1. Tetria | 6. Jisubathan |
| 2. Domdi | 7. Bara Kalajore |
| 3. Kusumghati | 8. Choto Kalajore |
| 4. Tilabad | 9. Mohonpur |
| 5. Amjora | 10. Sundarpahari |

- | | |
|--------------------|-----------------|
| 11. Salodi | 20. Dahubera |
| 12. Salpathra | 21. Telbitha |
| 13. Paharpur | 22. Jamalpur |
| 14. Rampur | 23. Jiajuri |
| 15. Jitpur | 24. Ladhapatbor |
| 16. Bara Kalajuri | 25. Phulberia |
| 17. Chota Kalajuri | 26. Manibathan |
| 18. Gamaroe | 27. Dhapahari |
| 19. Gamarbera | 28. Zolo |

As a *Manjhi* has an assistant so the *Parganait* also has one known as *Desh-manjhi*. There are also *Chakladars* who are appointed by the *Parganait* who act as the messengers of the two above officers. Outside the Damin area there is no *Parganait* and *sardars* are appointed by the Sub-divisional officer having a number of *chowkidars* under him.

Custom has made these positions hereditary and there is a formal election system. The eldest member in each house of the village has the power of giving vote. After election the headman's appointment is confirmed by the Sub-divisional officer. The *Parganait* is elected by the headman of all the villages which form a *bungalow*, and his office is confirmed by the Sub-divisional officer and the Deputy Commissioner of that Division, and the *Desh-Manjhi*'s appointment is confirmed by the Sub-divisional officer only.

FEDERAL COUNCIL AND THE FIRST COURT OF APPEAL : THE PANCHAYAT AND KULLDRUP.

In the month of *Magh* (January and February) the village people gather together after a sacrifice. The headman of the village, taking the lead, resigns his post to the village people; all the other officials of the village also resign their posts one after another.

Panchayat.

In each *bunglow* there are two councils, upper and lower, like the modern Council House and Assembly of India. The upper is known as *Panchayat* in which the *Parganait* of the *bunglow* presides and the headmen of all the villages of the *bunglow* become members of the *Panchayat*. Affairs of a weighty nature have to be decided in the council.

Kulidrup.

The lower assembly is known as *Kulidrup* in which the eldest member of each house represents the assembly and the headman of the village presides. The indigenous officials of the village described above are *ex-officio* members of the *Kulidrup* and every village has a place for holding the council before the house of the headman of the village which is known as *Manjhi-sthan*. All petty disputes, both of a civil and criminal nature, are settled there but if the matter to be settled is of an immoral and shameful character, they go to the end of the village street or on some other convenient place where they need not fear to hurt the feelings of their womenkind.

INHERITANCE.

In the matter of inheritance, the Santals follow their own customs and know nothing of the so-called codes which govern the devolution of property among the Hindus. Till the death of the father the property of the family remains intact and all the members enjoy in common. After his death the property is divided amongst his sons equally except that the eldest gets a bullock and a rupee more than the others. As the Santal women have no right to any of the property, movable and immovable, the question of inheritance on their part cannot arise at all. If a man dies

without an issue his property goes to the next agnatic relation. If the father of the deceased remains alive the property will revert to the father; if he is dead it goes to the brothers of the deceased equally ; if the latter are dead their sons succeed. In default of this the paternal uncles and their sons become successors. The condition of the widow of a childless man becomes very bad ; none takes her charge. Sometimes she gets one cloth, a *bati* (brass vessel), a calf and 10 to 12 maunds of paddy. Sometimes also it can be seen that her husband's younger brothers keep her. Even when one of the younger brothers keeps her, the share of the deceased brother is equally divided between all the brothers. If the younger brothers of her husband do not give her any shelter she returns to her parents' house. If a man leaves only daughters (unmarried) their paternal grandfather or uncles take charge of them and of the widow and the property remains in their possession. They give to these girls the presents which they get during their marriage as their own property, but the bride-price goes to guardians, headman, etc. After marriage the widow gets the perquisites of a childless widow and returns to her father's or to her daughter's house. In many cases it can be seen that one of the sons-in-law becomes *ghārda-jawāe*. He lives with his wife in the father-in-law's house and helps him in every possible way like a son till he dies, when the *ghārda-jawāe* inherits all the immovable property and half the movable property ; the other half goes to the relatives of the deceased.

If a man dies leaving a widow and several sons (minor), then the widow keeps all the property in her possession. The grandfather or uncles of the sons see that the widow does not waste it. If the widow remarries before her son's marriage the grandfather and uncles take possession of the property. The mother of the sons has no right to anything of it. Sometimes it can be seen that the widow a calf which is known as *Bhandkar*. If the widow does not marry again, she lives with her sons, generally with the youngest son. The youngest son then

will get all the personal property of his mother after her death. No other sons can claim it.

PARTITION.

Partition in a Santal family generally takes place when members become numerous in a family, and a single house cannot accommodate all the members ; or if the sons do not live happily together, specially when the father has married again and had other issue, the parents make a partition. This partition takes place in the presence of the members of the *Kulidrup* (the council of the village people). A *Kulidrup* is called and the father divides all the land, cattle, and other things. The landed property is divided equally, the father and the sons get a share each. The house is also divided equally among the sons and father. If in a house there are four rooms then each will get one, provided all are married. The son with whom the parents live retains possession of their share during their lifetime. Unmarried sons get a double share of the live-stock, one share for their marriage expenses. Daughters get no share in the property but if they are unmarried they get one calf each, that being the dowry to be given them at marriage, because during the marriage the bride's side has to give a calf to the brother of the bridegroom. The cattle which the sons get at their marriage are divided. But the cattle which the daughters-in-law received from their fathers, brothers and from their fathers-in-law at the time of marriage are not divided. After the death of the wife of a Santal, her unmarried sons cannot claim a partition even if their father takes a second wife, but they can do so if they like after marriage. If the second wife has got no children when the father dies the sons by his first wife will get the share of the father provided they agree to pay for the funeral of their step-mother.

AN ETHNIC ANALYSIS OF THE CULTURE-TRAITS IN THE MARRIAGE CUSTOMS AS FOUND AMONG THE RĀDHĪYA BRAHMINS OF MYMENSINGH.

BY

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Perhaps no part of the social life of a nation is likely to mirror the entirety of its cultural history as marriage. In a Hindu

Introduction. popular saying birth, death, and marriage are spoken of as pre-destined—so also is the deprecating English saw of ‘wiving and hanging

going by destiny.’ It is quite natural that all the conservative traits and innovating tendencies in the group would simultaneously find their way in marriage ceremonies. The funeral customs would be resistant naturally to all new traits but marriage being the great occasion of group-relaxation would likely bring into full play all the suppressed social subconscious side by side with the desires of wish-fulfilment evoked by new conditions. Superficially, the ceremonies seem to perpetrate the good old customs and to keep up the mask of old traditions, but in reality concessions, at least in marriage ceremonies, have always to be made to the latest fashions. But the difference between the Indian tendencies and prevailing modes in other parts of the world is that owing to the presence of a social hierarchy, with its dues and rights inevitably linked with certain ceremonies, it is hard to give here even the least bit the go-by. Then again, the dread of misfortune to the wedded pair would always make the old ladies force others to keep up the old items though to the addition of new items they could hardly object. Thus, amongst the presents to the bride, to

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mention one example, there is still the insistence of presentation of a brass mirror, a custom perhaps which could be found in the early Bronze Age, but side by side is presented also the latest model of the most fashionable mirrors. Thus the marriage ceremonies not only drag on a long trail of the past, but is always adding new flowers from the present-day modes. In short, the marriage ceremony, rather than any other custom, if properly analysed, is likely to provide us with the various dominant phases of social mood and cultural fashions in anomalous juxtaposition.

In dealing with the custom of marriage among the Rādhiya Brahmins of Bengal I shall confine my attention to the district of Mymensingh alone as a field under personal observation. It would be a Herculean task to note down all the different variations of the marriage customs, as they prevail today, in all the different parts of Bengal.

In ancient India there were eight forms of marriage. They were—(a) Brāhma, (b) Daiva, (c) Prājāpatya, (d) Ārṣa, (e) Āsura, (f) Rāksasa, (g) Gāndharva, and (h) Paiśācha. In a passage in one of the Grhya Sūtras we find that all the eight forms of marriage enumerated above are described in the order of their preference. It runs thus—“(1) (The father) may give away the girl, having decked her with ornaments, pouring out a libation of water : this is the wedding (called) Brāhma. A son born by her (after a wedding of this kind) brings purification to twelve descendants and to twelve ancestors on both (the husband's and the wife's) sides. (2) He may give her, having decked her with ornaments, to an officiating priest, whilst a sacrifice with the three (Srauta) fires is going on : this (is the wedding called) Daiva. (A son) brings purification to ten descendants and to ten ancestors on both sides. (3) They fulfil the law together : this (is the wedding called) Prājāpatya. (A son) brings purification to eight descendants and to eight ancestors on both sides. (4) He may marry her after having given a bull and a cow (to the

girl's father) : this is the wedding called Ārsa. (A son) brings purification to seven descendants and to seven ancestors on both sides. (5) He may marry her, after a mutual agreement has been made (between her lover and the damsel) : this (is the wedding called) Gāndharva. (6) He may marry her after gladdening (her father) by money : this (is the wedding called) Āsura. (7) He may carry her off while (her relatives) sleep or pay no attention : this (is the wedding called) Paisācha. (8) He may carry her off, killing (her relatives) and cleaving (their) heads, while she weeps and they weep : this (is the wedding called) Rākṣhasa." (Asv. I. 6. 1-8.) Many of the above forms are met with even to this day—of course, more or less modified. Among the higher castes of Bengal we find mainly two kinds of marriage which partake of the nature of the Brāhma and the Āsura forms.

The evils of the dowry system have not yet cast their baneful spells upon the Rādhiya Brahmins of Mymensingh. Acceptance of money-consideration by the bridegroom's party is greatly looked down upon by them. But it is generally

Bridegroom-price. found that the bride's father gives some dowry in kind at the time of marriage. This he does according to his means. The presents to the bridegroom by the girl's father are collectively known as "Barābhāran."

One conspicuous feature of Mymensingh is that the well-known and ever-present face of the 'Ghatak,' or the match-maker, is nowhere to be seen. Marriages are settled by the heads of the families themselves.

Match.maker. There are still people who can tell you, if asked, the names of the fathers of all the marriageable boys and girls within the society, their social status, lineage, and whether there is any bar to the marriage on account of the parties falling within the prohibited degrees, or for any other reason. Comparing of horoscopes is not given so much importance as is done in West Bengal. All that are necessary for settling a marriage is the family, its tradition, and its social status.

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The custom of "Kōnē-dekhā" or the seeing of the prospective bride for approval does not obtain in the district of Mymensingh. This is contrary to the prevalent custom amongst the higher castes in other parts of Bengal. There are, however, some families, as our information goes, of Dacca Brahmins (Varendra) who refuse to show their daughters to the guardians of the prospective grooms. In the district of Mymensingh the bridegroom's party has got to make their choice on secondhand information. Being a small community practically everybody knows one another, so the secondhand information is, in most cases, reliable. Even if the bridegroom's party had seen the prospective bride before the marriage negotiations were carried on they must not see her after they have made the proposal of marriage.

After the preliminary talks have been concluded between the parties and they have agreed upon the *Bāgḍān*, an auspicious day is selected and a formal letter of proposal by the father of the bride to that of the bridegroom is written. This letter is written with red ink and bears three marks of vermillion mixed with mustard oil on the top of the letter. It is then sent to the bridegroom's father per bearer who must be a Brahmin. Generally some sweetmeats are also sent with the letter. From the date on which the letter is sent, the girl is regarded as betrothed. This is only a kind of contract entered into by the parties to the marriage in the presence of some respectable members of the society. Opinions are divided on the question of revocability of marriage after 'Vāgḍān.' Manu says "Neither ancients nor moderns who were good men have ever given a damsel in marriage after she had been promised to another man" (Manu, Ch. IX, 99). But Nārada and Yājnavalkya admit the right of a father to annul the betrothal to one suitor if a better match presents itself; and either party to the contract is allowed to withdraw from the contract when

certain specific defects are discovered. But in Bengal such revocation is followed by a social censure, and the father of the girl finds it very difficult to arrange for another marriage.

Most of the Grhya Sūtras are of opinion that marriage ceremonies should be held "during the northern course of the sun, in the time of the increasing moon, on an auspicious day" (Sān. I. 5. 5). Aśvalāyana prescribes that it should be celebrated 'under an auspicious Nakṣatra' (Asv. I. 4. 1). Āpastamba agrees to the season fixed by others, but in one verse he goes or to say—"All seasons are fit for marriage with the exception of the two months of the Śiśira season, and of the last summer month. All Nakṣatras which are stated to be pure (are fit for marriage)" (Ap. I. 2. 12 and 13). He specially recommends the Svātī Nakṣatra. At present the months selected for holding marriage ceremonies are Baiśakh, Jyaiṣṭha, Āṣārh, Śrāvan, Agraḥāyaṇ, Magh, and Fālgun. Marriages of elders' children generally do not take place in the month of Jyaiṣṭha. The last three months mentioned above, viz., Agraḥāyaṇ, Māgh, and Fālgun are generally preferred. Marriages sometimes take place in the months of Bhādra and Kārtik also—this is only by way of exception.

Before the passing of the Sarda Act prohibiting child-marriage, the age of marriage among girls generally varied between 10 and 14. But after the said Act came into force in 1931 the age of marriage among girls generally varies between 14 and 16. A majority of the girls are married before they complete their sixteenth year. Even a couple of decades back post-puberty marriages were rare among the Brahmin girls. The age of marriage of the males is also higher these days. When pre-puberty marriage was the rule the age of the bridegroom varied between 16 and 21 ; but now-a-days they generally marry between 21 and 25.

Many scholars are of opinion that in the Vedic Age marriage was considered to be the union of two persons of ful-

development. Ghōṣā, who contributed a hymn to the Rg Veda, appears to have been advanced in age before she could find a suitor. In the Rg Veda we find that the essential features in the marriage ritual are the taking of the bride to her husband's house, and the cohabitation on the fourth night after marriage. This has also been referred to in many of the Grhya Sūtras. It indicates that girls were married after they had attained puberty. But there are other hymns in the Rg Veda in which the marriage of a girl before puberty is evidently referred to, e.g., the case of Romaśā, the wife of Bhābayabha, king of the banks of the Indus. In the Chāndōgya Upaniṣad, one of the earliest works on Sāma Veda, we meet with the mention of child wives.

Even a few years ago it was not uncommon to find a man having two or three wives at a time. But this Polygyny. practice of polygyny is rarely met with to-day. What with the economic depression and what with the progress of civilization, the idea of having more than one wife at a time is treated with abhorrence by the youngmen of modern Bengal.

Before any of the marriage ceremonies are gone through several preliminary rites have to be performed. I shall try to give exhaustive details of them in the order of their priority. The first ceremony connected with marriages is known as the ceremony of 'Pinning the betel-leaves,' or "Pāna-khil," as it is popularly called. Nothing in connection with the proposed marriage can be done unless this ceremony has been performed. Even the marketing for the marriage must be done after this ceremony. It is generally performed about a month or a fortnight before the date of marriage.

Early in the morning of an auspicious day a married lady of the Brahmin caste will draw a circle with a mixture of powdered rice and water. Various designs are drawn within the circle. This circle having various designs within it is known as "Ālpanā." There is no hard and fast rule that a specific design should be

The ceremony of
"Pāna-khil."

made. This *Ālpanā* is generally drawn in the middle of the courtyard. A few grains of paddy and a few Dūrvā grass (*Agrostis lincaris*) are then strewn over the *Ālpanā*. Some curd and a fish are then placed near it. After this that lady or any other married lady will proceed to the nearest tank or river, as the case may be, with a small pitcher (*ghat*) and several other ladies will follow her singing the folk songs which relate to the marriages of Siva and Pārvatī, Sāvitri and Satyavān, etc., and she will come back after filling the pitcher with water. This pitcher she will place in the centre of the *Ālpanā* and five spots are marked into the body of the pitcher with vermillion mixed with oil. A mango twig with five leaves are then placed within the pitcher. This being done, three or five married women will sit near the *Ālpanā* with several betel-leaves, betel-nuts, and a few bamboosticks of the size and shape of a tooth-pick, all placed in a sieve. The ladies will then pin up those leaves taking three each with three betel-nuts inside. Each one of them pins up twenty-seven betel-leaves, i.e., the pinning is repeated nine times. There must be plenty of betel-leaves and betel-nuts left after this pinning up. At the time of the "Pāna-khil" the ladies will sing and make 'Ulu' sounds, i.e., a kind of sound made by the vibration of the tongue, with their mouths. The betel-leaves and betel-nuts are then offered to the household deity, and after this these are distributed among the ladies present there. Mustard oil, vermillion and sweetmeats are also freely distributed. Betel-leaves, betel-nuts, oil, vermillion, and sweetmeats are then sent to the houses of the relatives in the village or villages adjoining. This finishes the ceremony of "Pāna-khil."

The Puja of Barkumār, which is nothing but an offering to

The Puja of Bar-kumār. the goddess Bhagavatī, is performed about a week before the wedding. This offering is made in order to secure a blissful conjugal life to the bride and the bridegroom. The ceremony is very simple : fried rice, burnt rice, sunned rice, powdered rice and paddy are separately placed

in five plantain leaves the tips of which are uncut (*āngat pātā*) and they are offered to goddess Bhagavati.

The next ceremony is the worshipping of the tree-trunk (gāchēr guṇrīr vrata). It may take place on the same day on which the Pujā of Barkumār is performed. Generally a banian tree (*Ficus religiosa*) or a Seorā tree is chosen. An offering consisting of some sweetmeats, fried rice, mustard oil, vermillion, fish, and some length of red thread are placed on a winnowing fan. A married woman carries the offering to the tree. She then washes the tree trunk and the adjoining land with water which she must fetch herself. Then she winds the red thread seven times around the tree trunk, and puts some vermillion mixed with mustard oil to it. The priest then offers those things to the goddess Vana Durgā after chanting some Mantras. The offerings are left there and are generally taken by the lower castes. In some villages the red thread is unwound after the offering is made and is tied to the wrist of the bride and the bridegroom, as the case may be.

It should be mentioned in this connection that all the above ceremonies and several others as well take place in the houses of both the parties. It is also essential that all the ceremonies, starting from "Pāna-khil" up to "Hasta-sparsā" must be accompanied by some kind of music. Generally, even in the poorest families, we find the beating of "Dhol," or a kind of drum, and "Kānsi," a kind of musical instrument made of bell-metal, usual.

On the day previous to which the wedding takes place a ceremony known as "Tēl-kāpar" takes place. An auspicious moment is chosen in the morning and the bridegroom dips the toe of his right foot in some mustard oil mixed with powdered grains of fenugreek (*Mēthī*); this mixture is technically known as 'Gandha-tail,' or scented oil. The remaining 'Gandha-tail' and five different shades of coloured powders are placed in a tray and are sent to the house of the bride.. The tray must not be touched by any one other than a

Brahmin. Clothes, vermillion, vermillion-boxes, conch bangles, betel-leaves, betel-nuts, fish, sweets, oil, *ghee*, flour, vegetables, cooking and other utensils, etc., are also sent with the 'Gandha-tail.' Several 'Ālpanās, as I have described before, are drawn in the courtyard of the bride's house and the things that are sent from the bridegroom's house are placed upon those Ālpanās. As soon as the bearers of 'Gandha-tail,' etc., reach the bride's house the ladies greet them with 'Ulu' sounds. Now-a-days they also blow conch-shells.

The bride rises early in the morning previous to the wedding day and she is made to sit on a thin mat (*pātī*) with an oil-lamp burning in the room. A small pitcher containing water is also placed there. This is known as making the bride sit for "Adhvāsa." She sits there until the 'Gandha-tail' reaches there from the bridegroom's house. As soon as the 'Gandha-tail' reaches there she is smeared with that oil and is bathed with water brought by five married ladies in small new pitchers. I may mention here that women in the neighbourhood assemble in the houses of both the parties early in the morning of the day on which the ceremony of "Tēl-kāpar" takes place, and they sing folk-songs like the ones I have mentioned before.

The fish, vegetable, sweets, betel-leaves, etc., which are sent from the house of the bridegroom, are not consumed by any of the bride's relatives. They are generally distributed among the neighbours. Goddess Kāli is also propitiated on the same day.

On the wedding day the mother of the bride gets up long before sunrise and taking a new pitcher Chōre-Pāni. places a plantain, a *cowrie*, a brass ring, a myrobalan, and a *Baherā* fruit within it. Then she proceeds to the nearest tank or river with the pitcher, a knife and a piece of cloth dyed with turmeric. She is generally followed by one or two ladies. On reaching the tank or river, as the case may be, she enters knee-deep into the water, passes the knife three times through the water imitating the act of cutting, and then fills the pitcher with water. This is known as filling the

pitcher with water stealthily, or, in a more technical language, filling the pitcher with “Chōre-pānī.” She then comes back with the pitcher after covering its mouth with the yellow piece of cloth. She places the pitcher in the room of the bride. Then the ladies of the house, along with the bride, takes flattened rice mixed with curd and sugar. After this the bride is made to sit on a thin mat amidst ‘Ulu’ sounds. An oil-lamp, placed on a lamp-stand, is kept burning in the room. A brass mirror and about half a cubit’s length of very green rolled-up tip of a sprouting plantain leaf, wrapped up in a piece of cloth dyed with turmeric (*Curcuma longa*), is given to the bride. She must not part with it till after the marriage ceremony is over. Both the bridegroom and the bride must fast on the wedding day.

In the morning the mother of the bride places a new piece

Sōhāg-māgan.

of cloth with a red border on a winnowing fan and places on that cloth four small earthen

pots containing vermillion, mustard oil, turmeric, and “Rādhni” which is a kind of parsley. Then she covers the pots with a fold of that new cloth. A betel-leaf and a betel-nut is then put into the mouth of the bride’s mother. She then takes the winnowing fan on her head and sets out for the houses of the relatives of her husband in the village followed by two other married ladies. One of them carries a pitcher half full with water, and the other carries some powdered rice mixed with water and five betel-leaves. People with “Dhōl,” “Kānsi” etc., also follow them. They visit five of the houses of the relatives of the bride’s father. When they go to one house they must not enter any of the rooms, nor must they speak. In front of the door-lintel one of the ladies draws a line with powdered rice mixed with water, places a betel-leaf on that line, and the mother of the bride places the winnowing fan on the ground just beyond the line. The housewife then comes to the door and without crossing the lintel puts some vermillion, mustard oil, turmeric, and “Rādhni” into the four pots and pours some water into the pitcher. This is done in all the five houses.

Then coming home the mother of the bride will tread on some paddy, placed beforehand on a mat, in such a manner that at least five grains of rice come out of them. She picks up five grains of rice thus husked and ties them in one corner of her cloth. The winnowing fan is then placed on an Ālpanā in the court-yard. Some paddy is put into a husking implement made of wood (*udukhal*) which is placed near the Ālpanā. A spade, a pestle for husking rice, and a yoke are also kept there. The father of the bride then comes and stands with his back towards the winnowing fan and keeping his legs apart. Then he holds the spade with his hands, digs some earth with it, and throws the earth into the winnowing fan placed in between his legs. After this the father and mother of the bride come near the husking implement. One of the married ladies present there puts a knot in the hems of their cloths and thus joins them. Then the father of the bride takes the yoke up and the mother takes the pestle and they husk the paddy together. The rice thus husked are used in the porridge for "Kṣīr-bhōjan" which I shall describe later in its proper place. The above ceremony is known as "Sōhāg-māgan." This ceremony is performed by the bridegroom's mother also.

At an auspicious hour at noon the bridegroom is smeared with a paste made by grinding together green turmeric and a seed of *Mimosa scandens* (*gilā*) with water. Then he is bathed, amidst music, folk-songs and 'Ulu' sounds, with water brought by five married ladies in five new pitchers. After the bridegroom has been so bathed, information is sent to the bride's house where she is also subjected to exactly similar operations.

In the forenoon, either before or after the ceremonial bath, the father of the bridegroom offers oblations of water, rice and fruits up to three generations on both his father's and mother's side. In case his father is living, the oblations are offered to the three generations starting from his grandfather (father's father). Similarly, if the maternal grandfather (mother's father) is living,

Abhyudayika Srād-
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he will offer oblations up to three generations on the male line starting with the maternal great-grandfather (mother's father's father). We need not bother about the details of this ceremony. It is known as "Ābhuydayika Srāddha" with which the blessings of the forefathers are solicited on the threshold of a householder's life. The father of the bride also performs the "Ābhuydayika Srāddha." In case the father is unable to perform the Srāddha, he may depute any of his agnates to perform it for him.

At an appointed moment the bridegroom, fully dressed, and wearing a coronet made of cork, performs the *Subha-yātrā*. The details are as follows : A wooden seat is placed just beyond the door-lintel of the biggest room in the house. In front of that seat is placed a small pitcher filled with water, and within that pitcher is placed a mango twig with five leaves. Besides this there are placed near about the pitcher, a burning oil lamp in a lamp-stand, some raw fish, curd, vermillion mixed with mustard oil, a few grains of paddy and some Dūrvā grass (*Agrostis lincarlis*). The bridegroom sits on that seat and the priest makes him chant some Mantras or hymns. The bridegroom, at the time of chanting the Mantras, takes a leaf of the wood-apple tree and smells it all along. He throws it away after the chanting is over, gets up and takes the dusts from the feet of all the elders. They in return bless him by strewing a few grains of paddy and Dūrvā grass on his head. He then starts for the bride's house amidst music and 'Ulu' sounds. Just as he begins to move, his sister thrusts a broken needle at the back of the coronet, and the bridegroom behaves as if he is not aware of it. The origin of this custom may be traced to the belief among many peoples, both primitive and civilized, that iron protects a person from the influences of malevolent spirits. The mother of the bridegroom then shows him a leaf of the *Mān* (a kind of prickly shrub) and asks him, "What is that you see in my hand ?" To this the bridegroom replies, "It is a *Mān* leaf. I am leaving

my Mān (heart) to you." It is customary that the marriage ceremony must take place at the bride's house. The bridegroom must be accompanied by the family priest and a barber.

On hearing that the bridegroom's party is approaching, the mother of the bride takes some roots of arum, some earth procured from the house of a prostitute, and the five grains of rice which she had tied to the corner of her cloth at the time of "Sōhāg-māgan." She places these things on a flat stone used for grinding spices (*Sil*). Then she takes a pair of betel-nuts which must have one common stem and a *cowrie*, rubs them against the arum roots, the earth, and the rice to pulp. She then scrapes out the paste with a strip of bamboo given to her by the barber. She sits on a big dish made of stone at the time of doing this. This is known as "Sōhāg-bātā," or the grinding of the "Sōhāg." As soon as the party arrives outside the boundary of the bride's house, the father of the bride comes out along with other relatives and invites each one of the party individually to come to his house and perform the ceremony. They then go inside the house. There is a custom in some villages that the bridegroom is lifted up by the servants, is taken into the house, and is placed on a special seat. As soon as the mother of the bride is informed that the bridegroom has taken his seat, she smears a little of the paste made with arum roots, earth and rice, on the forehead of the bride, takes out the betel-leaf and the betel-nut which were put into her mouth at the time of "Sohāg-māgan," and puts them into the mouth of the bride who immediately throws them away. Then the mother of the bride shuts herself up in a room and comes out under no pretext until the "Sampradān" or the giving away of the bride is over, nor will she speak during that period.

The actual marriage ceremony takes place in the open court-yard under the canopy of stars. An area of four cubits square is bounded by four plantain trees which are planted into the ground. A white thread is wound seven times around the plantain trees at a height of about five feet. Mango leaves are then tied to the

thread on all sides. In the centre of the area is dug a shallow depression, twenty-one finger-breadths square, *i.e.*, about half a cubit square, representing a pond. Ālpanā is also drawn on the four sides of the depression. A new earthen pitcher is then placed into that supposed pond. It is filled with water and contains a mango twig having five leaves, and five vermilion spots with a symbolic figure of Ganeśa, the god of success, are drawn with vermilion on the body of the pitcher. It is then covered with a piece of cloth dyed with turmeric-paste dissolved in water.

At the appointed hour the bride's father, taking permission from the father of the bridegroom, asks the servants to lift the bridegroom up and take him to the place mentioned above. The bridegroom sits on a painted wooden seat facing east and the person who gives away the bride faces north. The family god (*Sālagrām Silā*) is placed within the area and the priest faces south. A water vessel made of copper is also placed before the bridegroom's seat. Other things which are placed within the area are—two rings made of *Kuśa* grass, flowers, sandal-paste, sunned rice, leaves of the wood-apple tree, two bunches of *Kuśa* grass about half a cubit long with a knot of a particular kind on the top (*Viṣṭara*), an oblation of curd, sugar, milk and honey (*Madhuparka*) in a small cup made of bell-metal, five kinds of fruit, *viz.*, emblic myrobalan (*Āmlaki*), myrobalan (*Harītakī*), *Baherā* fruit, betel-nut and nut-meg tied to a towel. The presents to the bridegroom are also placed near the plantain trees, and the pitcher containing “*Chōre-pāṇī*,” described before, is kept near the bridegroom's seat.

The order of relatives who can give away the bride is given below. The former ones are preferred to the latter ones :

- | | |
|---------------------|--------------|
| 1. Maternal uncles. | 5. Agnates. |
| 2. Paternal uncles. | 6. Cognates. |
| 3. Brothers. | 7. Sapindas. |
| 4. Father. | |

Unlike Western Bengal, females are not allowed to give away the bride.

As witnesses to the marriage ceremony the members of the bridegroom's party must be present in the courtyard at the time of marriage. The spiritual preceptors of both the families must also be present there.

In this connection I should mention that none of the bridegroom's party, including the bridegroom, must partake of any cooked food in the bride's house on that night. They are generally treated with light refreshments, and rice, pulses, raw fish, meat, etc., including cooking utensils, are sent by the bride's people to the place fixed for the residence of the bridegroom's party. The members of the bridegroom's party must cook their own food.

Seeing that everything is in order, the person giving away the bride, who has been fasting all day, takes three sips of water from the receptacle placed in front of him and utters the name of god Viṣṇu preceded by the word "Om" with every sip of water, and then salutes god Viṣṇu with Mantras or hymns. He then makes floral offerings to god Gaṇeśa, Sūryya or the Sun, the nine planets, Śiva, Brahmā, Indra, Agni, Yama, Varuṇa, Marut, Kuvera, Isāna, Ananta of the nether regions, and Nairṛt. The last ten are collectively known as "Daśadikpālas." He also makes floral offerings to Prajāpati and Nārāyaṇa with Mantras. He then takes a few grains of sunned rice and throws them in the direction of the pitcher, with Mantras. Next, he faces towards the bridegroom, who wears a coronet on his head, and with Mantras he asks him to take his seat, pays homage to him, and makes a floral offering to him.

The bridegroom is then given a silk cloth and a scarf (*Uttariya*), another coronet made of cork, and *Varanśa*. a sacrificial thread. He changes these for the cloth, coronet, and sacrificial thread he was wearing before. The cloth is taken away by the barber of the bride's party. He is then asked to remove the piece of cloth which covers the

mouth of the pitcher containing "Chōre-pāṇī," described before, which is kept near one of the plantain trees. At this the bridegroom removes the covering, dips his hand into the water, and takes out any one of the things from within the pitcher. Then he replaces the covering of the pitcher and ties it with the discarded sacrificial thread. He is then garlanded and is again asked to sit down. The person giving away the bride then takes a few grains of sunned rice and touching the right knee of the bridegroom with his right hand says, in course of uttering Mantras—"Thou belonging to such and such clan, such and such moiety, great-grandson of such and such person, grandson of such and such person, son of such and such person, do I select as the husband of X (he utters the name of the bride) who is the great-grand-daughter of such and such person, grand-daughter of such and such person, daughter of such and such person, belonging to such and such clan, and such and such moiety." The bridegroom replies, "I have been honoured by your selection." To this the giver says, "Please proceed with the necessary ceremonies." The bridegroom replies, "I shall do it to the best of my ability."

After the selection of the bridegroom comes off "Subha-drṣṭi" when the bride is carried to the place of marriage, fully decked with ornaments, clothes, and flower garlands, in a painted wooden seat. She sits on the other side of the painting, and faces towards the bridegroom, i.e., faces west. The towel containing the five kinds of fruits mentioned before and some sunned rice are put into the hold of the stool she is sitting upon. A new piece of cloth is folded and placed on the rice. She takes her seat on the cloth. Then amidst loud cheers, music and 'Ulu' sounds the bride and the bridegroom are lifted up by the servants about four feet above the ground and the bride is asked to look at the bridegroom full in the face and at the same time offer floral tributes to him. She is then made to take off her garland and place it on the neck of the bridegroom, who also does the

same thing. This is known as “Mälā-badal,” or the exchanging of wreaths. Then the bride is carried round the plantain trees always keeping the bridegroom to her right. This is done seven times and with the completion of every round the bride is made to offer flowers to the bridegroom, look at him, and exchange garlands with him. At the end of the seventh round a scarf is spread over the heads of the bride and the bridegroom and they are asked to take a full view of each other. Then the bride takes two cylindrical sprouting green plantain leaves, about half-a-cubit long, touches the chest of the bridegroom with them, and throws them away over the head of the bridegroom. This is repeated seven times. Seven pairs of betel-leaves are also thrown away over the head of the bridegroom in the same fashion. They again exchange garlands. This finishes “Subha-dṛṣṭi.” Both of them are then put back on the ground.

It will not be out of place if I mention here that unlike the practice in Western Bengal, the bridegroom is not subjected to the long and tiresome custom of “Strī-āchār” which precedes “Subha-dṛṣṭi.” The bridegroom thus escapes the practical jokes which are then generally practised on the bashful grooms. The reason of the absence of “Strī-āchār” is not far to seek—the Purdah system being strictly enforced in the area, the ladies do not come out of doors in order to perform the “Strī-āchār.”

After the “Subha-dṛṣṭi” which is also known as “Mukha-chandrikā” in Mymensingh, the

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bridegroom and the bride sit face to face, the former facing east and the latter west. The person giving away the bride hands over to the bridegroom one “Viṣṭara,” described before, and he accepts it. Both the handing over and the acceptance are followed by Mantras. With another Mantra the bridegroom places the “Viṣṭara” under his left knee. This is repeated once more, and this time the “Viṣṭara” is placed under the right knee. The bridegroom is then offered some water in a small copper spoon, with Mantras, to wash his feet

with. This is repeated three times. At first he pours the water on his left foot, then on his right foot, and, finally, on both the feet.

Next, the giver takes some "Dūrvā" grass, sunned rice, flowers, sandal-paste, and a few leaves of the *Arghya*. holy basil, in a copper tray and offers oblations to the bridegroom who takes it and puts it aside after touching it with his forehead. This is followed by a offering of water to him for washing his mouth. The bridegroom then faces north and takes three sips of water offered to him, and again turns to the east. He is then offered curd, sugar, milk and honey (*Madhuparka*) in a bell-metal cup which he accepts and keeps aside after smelling the contents thrice.

The bridegroom then takes three sips of water with the words "Om Viṣṇu," followed by praise of *Sampradaṇa*. Viṣṇu. Then the bridegroom holds the right palm of the bride with his right palm in such a manner that the outer side of the bride's palm rests on the inner side of the bridegroom's palm. The priest then places the towel, containing the five kinds of fruit, over their palms after tying the palms with a few Kuśa grasses and flower wreaths. He then places the joined palms on the pitcher which had been placed into the symbolical pond, described before. Then the giver touches a portion of the bride's garment and dipping a leaf of the wood-apple tree in water sprinkles some water over the bride with Mantras ; this is repeated three times. Then he takes some flowers with sandal-paste and offers them to Prajāpati, the presiding deity of marriage, and then to the bridegroom. Then he puts a leaf of the wood-apple tree, flowers, sandal-paste, a few grains of sesamum, a few grains of barley, and a few leaves of the holy basil plant (*Ocimum sanctum* or *Tulasi*) into the water of the copper receptacle and holding it with his right hand chants the following Mantras—"Om Viṣṇu, on this day of such and such month, when the sun is in the such and such sign of the zodiac,

on such and such half of the lunar month, and on such and such day of the moon, I, X (the giver utters his own name), belonging to such and such clan, hoping that it will please god Viṣṇu, pay homage to you, the great-grandson of A grand-son of B, son of C, belonging to such and such clan and such moiety." (Purōhitadarpaṇa, p. 427.) This he repeats thrice, and after that he utters the names of the great-grandfather, grandfather, father, and of the bride with their clan and moiety. This is also repeated thrice. Having thus uttered the names of the three generations in the male line of both the parties he gives away the bride with the following Mantras :—" I do give away to you this girl, decked with ornaments and garments, after paying homage to god Prajāpati."¹ After chanting the above Mantras he pours out the water with its contents over the joined palms of the bride and the bridegroom. The bridegroom then accepts the gift and praises the god of Love with Mantras.² After the gift and its acceptance, the giver again chants some Mantras with which he offers something made of gold, generally a gold ring, to the bridegroom as the sacrificial fee (dakṣinā). This is also accepted by the bridegroom with the words "Om svasti."

After this the giver makes a gift of the other articles meant for the bridegroom. Then the priest ties one end of the towel containing fruits to the scarf of the bridegroom and the other end is tied to the hem of the bride's garment. This is known as the tying of the "Gāṇṭ-charā."

Kṣir-bhōjan. The bride and the bridegroom, after saluting god Nārāyaṇa, rise from their seats and are taken to a room where there is placed a quantity of a kind of porridge, made of milk, sugar and rice, in a stone dish. The bridegroom offers the porridge to the five presiding deities, viz., "Prāṇa,"

¹ "Satatīr̥p sālītīr̥p Prajāpatidevātākāmarchitātūbhyaṁshēṣam sampradeśe."

² "Om svasti kāneyeṣam Prajāpatidevātākā," and "Om ka idam kasya adāt kāmas kāmāyādāt kāmaḥ pratigrāhitā kāmaś samudramābiśat kāmena tvā pratigṛhṇāmi kāmāitavē." Purohit Darpan, p. 428.

"Apāna," "Vyāna," "Udāna" and "Samāna," after taking a sip of water with Mantras. Then he divides it into four by means of two lines drawn diagonally across the dish with his ring. Then he gets up and the bride is made to take a portion of that porridge. This is known as "The eating of the porridge" or "Kṣir-bhōjan." The bridegroom must not eat anything belonging to the bride's house on the night of wedding. Some sweet-meats and fruits are taken from his house which he may take. But if the "Kuśandikā" is performed that very night he may take the food offered by the bride's party.

The "Kuśandikā," or the offering of sacrificial oblations to the gods confirms the marriage. No marriage is deemed complete unless this ceremony has been gone through. If time permits, "Kuśandikā" is performed on that very night. Otherwise, it is performed on the following morning. All the articles necessary for the performance of "Kuśandikā" have to be brought from the bridegroom's house. The following articles are necessary for the performance of "Kuśandikā," or, as is otherwise known, "Uttara Vivāha":—Sand, wood of the wild fig tree, dried pith of the jute plant, cowdung, *ghee* made out of cow's milk, a receptacle for *ghee*, a few twigs of the wild fig tree (*samidh*), a dish full of rice, pulse, *ghee*, etc., called "Pūrṇa Pātra," curd, parched grains, leaves of the Sami tree (*Acacia suma*), leaves of Viraṇ shrub (*Vēṇa pātā*), vermillion, a small new pitcher, a stone pestle, a flat curry-stone, a big pitcher full of water, winnowing fan, flowers, leaves of the holy basil plant (*Ocimum sanctum*), a few grains of sesamum, myrobalan, and a silver or gold coin.

Sand is spread on the earth making a place for sacrifice.

Kuśandikā. The area over which the sand is spread must be one cubit square. This is known to be the sacrificial altar. A pitcher filled with water is placed to the south of the altar; a few parched grains, together with a few leaves of the Sami tree, are placed on a winnowing fan which is placed to the north of the altar. To the west of the winnowing

fan are placed a pestle made of stone, and a flat curry-stone. To the west of these things are kept a few leaves of the *Viran* shrub covered with a piece of cloth.

The bridegroom sits to the west of the altar, facing east. The family deity is placed somewhere near the altar. The bridegroom takes his seat after bath, and the bride, after being bathed, is also brought there fully decked with garments and ornaments. The bride stands, with her back towards the altar, to the right of the bridegroom. The bridegroom offers her a piece of new cloth for wearing followed by some Mantras. The cloth is touched with the body of the bride and is kept aside. Then, after lighting the sacrificial fire, the bride is made to turn her face towards it and the bridegroom chants some Mantras. The bridegroom then gets up and makes the bride walk a few steps with Mantras which mean that the bride is being led to her husband's place. Then the bride and the bridegroom sit side by side facing the fire, the former sitting to the right of the latter. A twig of the wild fig tree, or Samidh, is then thrown into the fire after being dipped in *ghee*. The bridegroom then performs the "Mahā-vyāhṛti Hōma." After this the bride touches the right shoulder of the bridegroom with her right hand and the latter offers six oblations of *ghee* with Mantras. This is known as "Ājya Hōma." Ājya Hōma is followed by "Vyāsta-samasta Mahā-vyāhṛti Hōma." Then two oblations of *ghee* are offered to Agni and Sōma.

Both the bridegroom and the bride then get up and the bride stands in front and to the left of the bridegroom. Then both of them go near the pestle, resting on the flat grinding-stone, placed to the north-west of the fire and stand there facing north. Remaining in that position the bridegroom places his hand under the joined palms of the bride, and the bride is then asked to tread on the stone with her right foot. This is known as "Āsmākramāṇa."¹

¹ See also N. M. Penzer, Tawney's translation of *Ocean of Story*, Vol. VII, p. 188.

The bridegroom then pours some *ghee* on the joined palms of the bride and again holds them in the *Lāja Hōma*. manner stated above. Then the priest puts some parched grains on the joined palms of the bride. The bridegroom then chants some Mantras and the bride throws the parched grains mixed with *ghee* into the fire. This is repeated four times, and every time it is preceded by "Aśmākramana." Finally, the bridegroom pours some *ghee* into the winnowing-fan containing the remaining parched grains, and the bride holds the winnowing-fan. The bridegroom touches it with his right hand and whole of the contents are poured into the fire with Mantras and then the bride and the bridegroom walk three times round the sacrificial fire always keeping it to their right. This rite is called "Agniparikramana." This finishes the "Lāja Hōma" or the offering of parched grains to the fire.

After the "Lāja Hōma" the bride again steps on the flat grinding-stone. Near the stone are drawn seven Saptapadi gamana. big squares with powdered rice mixed with water. The bridegroom holds the right hand of the bride and makes her step on the first square with her right foot first and chants some Mantras. She is similarly led through the seven squares. This is called the ceremony of "Seven Steps" or "Saptapadi gamana." The bride keeps standing on the seventh square when the priest comes and sprinkles some water on her head and charts some Mantras. The bridegroom then holds the right palm of the bride with his right palm in such a manner that the dorsal side of the bride's palm rests on the ventral side of the bridegroom's palm, and remaining in this position the bridegroom recites some Mantras. Then the couple take their seats to the west of the fire, keeping the bride to the right, and again performs the "Vyasta-samasta Maha-vyāhṛti Hōma" and throws a "Samidh" into the fire at the conclusion of the Hōma.

The bridegroom then offers *ghee* to the fire six times with Uttara-vivaha. Mantras and every time he sprinkles some *ghee* on the head of the bride also.

After this the bridegroom makes the bride chant some Mantras which mean that the husband shows Arundhatī Darśāna. the stars "Dhruva," or the Pole-star, and "Arundhati," or a star in the constellation of the Pleiades.

Following this, the bridegroom looks at the bride and chants some Mantras which mean—"Om, the sky is firm, the earth is firm, the whole universe is firm, so be thou firm as rock in the family of thy husband."¹

After this the bride offers her salutations to the bridegroom with Mantras and the bridegroom, in return, blesses the wife. Then the priest dips a mango twig containing leaves into the pitcher and sprinkles water over the heads of the couple and chants some Mantras. The bridegroom then once more performs the "Vyasta-samasta Mahā-vyāhṛti Hōma."

Then the bridegroom chants some Mantras with which he implores the god Prajāpati to make their two hearts ring in unison. Then he proceeds on to say that their hearts have been exchanged.² This is followed by the chanting of some Mantras which mean that the husband is making the wife ride on a chariot; then, as if he is making her sit on an ox-hide. This being done a baby is placed on the lap of the bride and a fruit is given to him for eating.

After this the bridegroom performs two other Hōmas, viz., "Dhṛti Hōma" and "Chaturthī Hōma." In the former he offers eight oblations of *ghee* to the fire, and in the latter, he offers twenty similar oblations with Mantras. Then the bridegroom and the bride get up and stand to the north of the fire. This time the bride stands to the left of the bridegroom. After they have taken their stand to the north of the fire, the bridegroom sprinkles some water mixed with *ghee* on the head of the bride. Then he takes some vermillion with his

¹ "Om dhruvā dyas dhruvā pṛthivī dhruvam viśvamidam jagat, dhruvāsas parvatāmē dhruvā stri patikulē iyāpi." Purohit Darpan, p. 435.

² "Om yadetad hṛdayaspi tava tadastu hṛdayaspi mama, yadidam hṛdayaspi mama tadastu hṛdayaspi tava." Ibid, p. 435.

ring and draws a line with the vermillion along the partition of the bride's hair (*sīmanta*), and places a veil over her head. Then he takes a 'Samidh' half a cubit in length, dips it in *ghee*, and throws it into the fire. This finishes the "Kuśandikā." The other rituals that follow it are not Sāstric.

The couple, after saluting god Nārāyaṇa and all the elders, are then led into the bridal chamber. This is also done after the "Sampradāna" in case, the "Kuśandikā" cannot be performed that very night. Ladies of the house and those of the neighbourhood receive the couple into the bridal chamber. Generally no adult males are allowed to stay in that room. The ladies, especially the sisters and cousins (or classificatory sisters), sisters-in-law (or the classificatory brothers' wives), and those who belong to the grandmother's generation (*i.e.*, the classificatory mothers of the bride's mother or father) of the bride, take an active part in cutting all sorts of practical jokes with the bride and the bridegroom. They spend the night in mirth and merriment. The custom is that the couple must keep awake on that night, there must be lamps burning in that room, and that they must not be left to themselves. In the morning the bridegroom performs the "Kuśandikā" if it was not performed at night. Either after performing the "Kuśandikā," or, if it had been performed at night, in the morning the bride and the bridegroom take their bath and are then led to the plantain trees under which the "Sampradāna" took place. The priest carries a pitcher filled with water and he is followed by the bridegroom and the bride. They go round the plantain trees seven times, and, as they go round, the priest pours some water at the roots of each of the trees. This is known as the "Next-day-marriage," or "Vāsi Vivāha." After this the bridegroom and his party are treated with refreshments, and if they intend to stay for the noon, they are sumptuously fed.

It should be noted here that in Western Bengal there is a custom that the bride's sisters, at the time of the bridegroom's coming out of the bridal chamber, block the door and do not

allow the bridegroom to come out unless he pays them something or promises to do so. This is known as "Dōr dharani" in that area. It seems to be a relic of the ancient custom of soro-rate. But it is very curious to note that no such custom prevails in Mymensingh.

At the time of leaving the bride's house the bridegroom salutes all the elders there and pays as "Pranāmī" something to each of them according to their status. He also pays something to the servants, barber, washerman, and for the welfare of the society which is known as "Samāj Dakṣinā." No amount is fixed for these payments ; the bridegroom pays according to his means. After all these the bridegroom performs the "Subha Yātrā" described before, with the bride sitting to his left. Then they start for the bridegroom's house amidst music and 'Ulu' sounds. The mother of the bride gives some rice, spices and salt in a bundle to the bride because it is customary that the bride must not take rice at her husband's place until the ceremony of "Pāka-sparśa," which I shall describe later, is over. All the articles which were sent at the time of "Tél-kāpar" are returned with the bridegroom's party. Only the cup containing "Gandha tail," a few pieces of cloth, and edible articles are retained.

As soon as the couple reach the bridegroom's house, they remain outside till five married ladies come out to welcome them home. One of the ladies carries a fan, the second carries a pitcher filled with water, the third carries some raw fish, the fourth carries a vermilion-box containing vermilion, and the fifth one carries some parched grains in a winnowing-fan. They all make 'Ulu' sounds and hand the fish and the vermilion-box over to the bride. As they move for getting into the house, the lady carrying the fan fans the bride, the lady carrying the pitcher sprinkles water on the way, and the lady carrying parched grains scatters them in front of the couple. In the courtyard of the bridegroom's house is drawn an "Alpanā" on which a thin mat is spread. At one

end of the mat are placed five burning earthen lamps, and at the other end are placed five pitchers containing water and mango twigs. In the centre of the mat are placed seven betel-leaves, seven betel-nuts, seven cowries, and seven handfuls of rice, all covered by a piece of cloth. The bride and the bridegroom take their stand on that cloth when the mother of the bridegroom comes there with two earthen lamps tied together with a red thread in such a manner that the convex sides of the lamps remain outside. She touches the forehead, shoulders, breast navel and the knees of the bride first and then of the bridegroom with the lamps. Then she takes two pitchers and goes through a similar process. Then she takes a burning lamp, holds her left hand over the flame and touches the forehead of the bride and then that of the bridegroom with her hand heated by the flame of the lamp. She then blesses the couple by strewing some Dürvā grass and a few grains of paddy over their heads. Then the sisters of the bridegroom put some sugar into the mouth and some honey into the ear-holes and the eyes of the bride. Then the bride places the fish and the vermilion-box on the mat. After welcoming the couple the mother of the bridegroom sits on a wooden implement for husking placed in front of a door, and the couple then go to her and sit on her knees—the bridegroom sitting on the right knee and the bride on the left. In case of the death of the bridegroom's mother, or if she is a widow, the ceremony of Varana may be performed by any of the following persons :—father's brother's wife (classificatory), father's sister (classificatory), mother's sister (classificatory), and mother's brother's wife (classificatory). Then they are led into a room in one corner of which is kept a pitcher containing water, a rupee and some rice. The bride attempts to put her hand into it when the brother of her husband comes and says—"Please save this for my marriage." To this the bride hands over the pitcher to him. After this the couple sit on a thin mat in the room surrounded by the ladies. In front of the couple is placed a pot of unbaked clay and its cover made of the same thing. The pot

contains some paddy and twenty-one cowries. The husband pours out and scatters the contents of the pot on the mat and the wife gathers them and replaces them into it in such a manner that there may be no sound. If the cowries strike against one another, or if there is any sound when replacing the cover, it signifies that the husband will quarrel with his wife in future. However, this is repeated seven times. After this the wife presses the palm of her husband with a stone pestle and does not release him unless he promises to give some ornaments to her. At this the husband pretends that he is angry and turns round with his back towards her. The bride thereupon pulls one end of his cloth—but no, he does not pay any heed to that. Then the bride fans her husband, brushes his feet with the tips of her hair, and offers him a betel. This subdues his wrath and he resumes his former position. This is known as "Pāshā Khelā" or "Playing with the dice." After this the elders come there and are saluted by the couple in order of precedence. They bless the couple by strewing some Dūrvā grass and a few grains of paddy over their heads and give presents to them, either in kind or in coin. Then the husband leaves the wife there and goes to the outer apartments. He must not see her during the rest of the day, nor during the night following. The night following the marriage is called the "Fatal night" or "Kāl-Rātri." At noon the bride is led into the kitchen and is shown the cooked rice, fish, and vegetables. She is not allowed to touch them. She is allowed to take all the other articles of food of her husband's place except the rice. The rice which is given to her by her mother is cooked separately for her.

On the following day comes off the ceremony of "Pāka-sparśa" when the bride is allowed to touch the hearth. In the morning she takes her bath and enters the kitchen with her mother-in-law and other ladies. She is then given some turmeric which she reduces to pulp. Then she is given some vermilion mixed with mustard oil, some Dūrvā grass, a betel-leaf, and a few grains of paddy. At first

she makes five dots of vermillion with the middle finger of her right hand on each of the small props of earth placed around the oven to support a pot on fire. She then places the betel-leaf on one side of the oven and strews some Dūrvā grass and a few grains of paddy on the side of the oven and prostrates herself before it. Then she gets up and throws some salt, a few white cumin seeds, a few seeds of the fenugreek plant, and a few seeds of "Rādhni" into the oven. After this she is asked to cook some rice and one or two varieties of fish and vegetable curry. At noon, after the cooking is finished, all the varieties of cooked food are placed on a dish. Another dish containing some curd, sweetmeats, porridge, etc., in separate cups, and a tray containing cloth, oil, vermillion-box, a looking glass, a leaf of cotton wool impregnated with lac-dye, and a silver coin, are kept in one place in a room. The bride sits on a wooden stool with these things in front of her, and the bridegroom places the tray and then the dishes one by one on her joined palms. She accepts them and keeps them aside. The significance of this is that the husband takes over the charge of maintaining her during her life-time. She takes a bit of each variety of food except rice. After this the bridegroom, along with his friends and relatives, sit together to eat and the bride serves everyone of them with rice mixed with *ghee*. But no one must take the rice given to them by the bride—they keep the rice aside and are then served with food by other persons. This finishes the ceremony of "Pāka-sparsa."

The following night is known as "Subha-Rātri." An auspicious hour at night is chosen and the couple, fully decked with garments, ornaments and flower garlands, are led into the bridal chamber by the ladies. The room is well-lighted, a bed is spread in it, and a mosquito curtain hangs over the bed. In one corner of the room is kept a dish containing porridge made of milk, sugar, and rice. The bridegroom takes his seat near the dish, offers the porridge to the gods, takes a portion of it and gets

up. The bride then takes her seat there and eats a portion of the remaining porridge. She then sits near the bed and by the side of her husband. Both of them then take two betels, one each, and the husband exchanges his betel with that of the wife, and this is repeated seven times. The wife then puts the betel into the mouth of her husband who also does the same thing in return. Then the bridegroom gets up and deranges the bed, and the bride arranges it. This is done seven times. After this the bridegroom unties a corner of the mosquito curtain and the bride ties it. This is also repeated seven times. This being done, the bride and the bridegroom exchange their garlands three times. Meanwhile, those who stand in joking relation to the couple cut various practical jokes on them. The room is then vacated and the husband and the wife are left to themselves. Cohabitation may take place on that night.

On the following noon the bridegroom invites all his relatives to take their meals from the hands of his *Hasta-sparśa*. He has got to invite even his own father in precise words. After all the relatives have taken their seats along with the bridegroom who sits at the head, the bride serves each one of them with rice mixed with *ghee*. This time everybody partakes of the rice served by her, and she is thus accepted as a member of the society. This finishes the ceremony of "Hasta-sparśa" and the ceremony of marriage as well.

Before bringing the descriptive portion to an end, I would like to add that the various ceremonies, rituals and customs which I have tried to describe above, vary in their minor details in different villages—nay, even in different families. These variations are due to the influence of local and family customs on the ceremonies and the rituals.

I would now pass on to a comparative study with a view to find out the essential traits and various strands that go to make up this culture.

The well-known description of the eight forms of marriage in the Hindu Scriptures could be taken more as a classification of the modes of marriage by ancient Hindu sociologists. It will be found that the classification agrees more or less with the modern studies of Western anthropologists. Further, the arrangement might be looked upon as a recognition of more and more developed types from earlier and cruder forms. Thus, last in

*Paiśācha form or
marriage by ravish-
ment.* the scale would come the Paiśācha form where the bride is carried off stealthily and is ravished before marriage. Among the lower animals

we find that sex-partnership is more or less instinctive, and the Paiśācha form of marriage is just an improvement on that animal instinct. Though probably extinct, it seems to be the earliest and crudest of the modes of contracting marriage. Sex-partnership alone, in a more modified form, as being accepted for marriage, is still to be found amongst primitive tribes. But in most cases, even amongst many primitive tribes, mutual choice

*Gāndharva form or
marriage by mutual
choice.* plays a great part. Gāndharva form of marriage, or marriage¹ by mutual choice of the parties, is a well recognised form of marriage.

Examples of such union are found amongst the Amer-indian tribes of North America and of South America, such as—the Lengua,² the Matacos,³ the Chiriguanos of Bolivia,⁴ the Zaparo of Ecuador,⁵ the Macusis,⁶ the Uaupes,⁷ the Bororo of Central Brazil,⁸ and the Boro and Witoto of the North-West Amazons⁹ in the South, and the Tarahumare of Mexico,¹⁰ the Moqui,¹¹ the

1. See also Mrs. Stevenson, *Rites of the Twice-Born*, N. M. Penzer—Tawney's translation of *Ocean of Stories*, Vol. I, pp. 37-88.

2 Grubb, *An Unknown People*, p. 214.

3 Westermarck, *History of Human Marriage*, II, p. 287.

4 Westermarck, *op. cit.*, p. 287.

5 Simpson, *Travels in the Wilds of Ecuador*, p. 173.

6 Westermarck, *op. cit.*, p. 288.

7 *Idem*, *ibid.*, p. 282.

8 *Idem*, *ibid.*, p. 288.

9 Whiffen, *North-West Amazons*, p. 164.

10 Lumholz, *Unknown Mexico*, I, 266.

11 Voth, 'Oraibi Marriage Customs' in *American Anthropologist*, N. S., ii, 295 sq.

Pueblo,¹ the Natchez,² the Alibamu and the Illinois,³ the Shawnee,⁴ the Omaha,⁵ the Kiowa,⁶ the Hidatsa of Dakota,⁷ the Apaches,⁸ and the Lilooet⁹ of North America ; among the Yukaghirs¹⁰ and the Tungus¹¹ of Siberia; among the Li of Hainan; in Formosa,¹² and among the Ainu of Japan.¹³ In India we find examples of Gāndharva marriage in Nepal,¹⁴ among the Bhotiyas of Almora,¹⁵ among the Kols, Santals and the Abors,¹⁶ the Bhuiyas,¹⁷ and the Saorias¹⁸ of Central India ; among the Todas,¹⁹ the Yanadis of Nellore,²⁰ the Paliyans, a nomadic tribe of the Palni Hills,²¹ the Badagas and the Kolas of the Nilgiri Hills²² of South India; among the Nagas of Manipur;²³ the Angami Nagas²⁴ and the Mikirs²⁵ of Assam; among the Shans of Indo-Burma ;²⁶ among the Lisu of the Burma-China

¹ Bancroft, *Native Races of the Pacific States of North America*, I, 549 n., 206.

² Westermarck, *op. cit.*, p. 289.

³ Bossu, *Traels through Louisiana*, I, 128, 232.

⁴ Ashe, *Travels in America*, p. 249.

⁵ Westermarck, *op. cit.*, p. 289.

⁶ Hodge, *Handbook of Indians of Canada*, I, 809.

⁷ Matthews, *Ethnography and Philosophy of the Hidasta Indians*, p. 52.

⁸ Cremony, *Life among the Apaches*, p. 246.

⁹ Westermarck, *op. cit.*, p. 291.

¹⁰ Jochelson, *Yukaghir*, p. 69 sq.

¹¹ Miss Czaplicka, *Aboriginal Siberia*, p. 105.

¹² Westermarck, *op. cit.*, p. 298.

¹³ Batchelor, *Ainu and their Folk-lore*, p. 223 sq.

¹⁴ Waddell, *Among the Himalayas*, p. 311.

¹⁵ Sherring, 'Notes on the Bhotiyas of Almora and British Gharwal' in *Mem. As. Soc. Bengal*, I, 106.

¹⁶ Rowney, *Wild Tribes of India*, pp. 67, 76, 159.

¹⁷ Macmillan, 'Bhuiyas' in *Calcutta Review*, CIII, 175

¹⁸ Bainbridge, 'Saorias of the Rajmahal Hills' in *Mem. As. Soc. Bengal*,

II, 56.

¹⁹ Rivers, *Todas*, p. 504.

²⁰ Westermarck, *op. cit.*, p. 293.

²¹ Dahmen, 'Paliyans' in *Anthropos*, III, 27.

²² Hough, *Letters on the Climate, Inhabitants, etc., of the Neelgherries*, p. 91.

²³ Hodson, *Naga Tribes of Manipur*, p. 87.

²⁴ Westermarck, *op. cit.*, p. 294.

²⁵ Stack, *Mikirs*, p. 18.

²⁶ Anderson, *Mandalay to Momien*, p. 301.

frontier;¹ among the Koreans of Tavoy² and the Sakais of Malay Peninsula.³ In Malaysia this form occurs among the Mantra of Sungei Ujong⁴ in the Straits Settlements; among the Orang Akit, the Orang Mamuq, and the Rindan Kubu of Sumatra;⁵ among the Hill Dyaks,⁶ the Sea Dyaks,⁷ and the Punans⁸ of Borneo; among the Minahassers of Celebes.⁹ In Melanesia too we find that marriage by mutual choice obtains among the inhabitants of Mortlock Island,¹⁰ Marshall Island,¹¹ and New Guinea.¹² The distribution of this form of marriage extends as far as Polynesia among the inhabitants of Tonga Island,¹³ Society Islands,¹⁴ and among the Maoris of New Zealand.¹⁵ Coming to Africa, we find examples of this form of marriage among some peoples of Madagascar;¹⁶ among the Hova, the Betsileo, the Bushmen,¹⁷ the Hottentots,¹⁸ the Wakonde and the Batamba,¹⁹ the Bakene²⁰ the Basoga,²¹ the Madi,²² and the Dinka.²³

¹ Rose and Brown, in *Memoirs As. Soc. Bengal*, III, 263.

² Westermarck, *op. cit.*, p. 295.

³ *Ibid.*, p. 295.

⁴ Knocke, 'Aborigines of Sungei Ujong' in *J.R.A.I.*, xxxvii, 293.

⁵ Westermarck, *op. cit.*, p. 296.

⁶ Hornaday, *Two Years in the Jungle*, p. 455.

⁷ Gomes, *Seventeen Years among the Sea Dyaks of Borneo*, 122 sq.

⁸ Hose and McDougall, *Pagan Tribes of Borneo*, II, 183.

⁹ Hickson, *A Naturalist in North Celebes*, p. 272.

¹⁰ Westermarck, *op. cit.*, p. 298.

¹¹ Westermarck, *op. cit.*, p. 298.

¹² *Ibid.*, p. 298.

¹³ Mariner, *Account of the Natives of the Tonga Islands*, II, p. 167.

¹⁴ Westermarck, *op. cit.*, p. 300.

¹⁵ *Ibid.*, p. 300.

¹⁶ *Ibid.*, p. 302.

¹⁷ Theal, *Yellow and Dark-skinned People of Africa South of the Zambesi*, p. 47.

¹⁸ Le Valliant, *Travels from the Cape of Good Hope, into the Interior Parts of Africa*, II, 67.

¹⁹ Westermarck, *op. cit.*, pp. 304-305.

²⁰ Roscoe, *Northern Bantu*, p. 149.

²¹ *Idem*, *Ibid.*, p. 211 sqq.

²² Westermarck, *op. cit.*, p. 306.

²³ O'Sullivan, 'Dinka Laws and Customs' in *J.R.A.I.*, XL, 180.

Besides these, a great number of marriages in the civilised nations of modern Europe and America are the outcomes of mutual settlement between the parties. In ancient India Kshatriyas chose their partners by courtship, and they enjoyed a great amount of freedom in choosing their mates, which, more or less, partook of the nature of Gāndharva marriage.

A still higher order of marriage was the Rākṣasa which is almost identical with marriage by capture.
Rākṣasa marriage
or Marriage by Cap-
ture. This custom has a very wide distribution in the present-day primitive world. Examples of marriage by capture are found among many of the Red Indian tribes of South America, e.g., the Yahgāns and the Onas of Tierra del Fuego,¹ many of the tribes of Brazil² and Ecuador,³ the Jibaros,⁴ the Zaparos,⁵ the Caribs,⁶ the Comanche,⁷ and the Luiseno.⁸ We find the custom of marriage by capture among the Samoyeds,⁹ the Votyaks and the Ostyaks,¹⁰ the Voguls, the Cheremiss, the Mordvin, and among the Tartars of Crimea as an alternative form where the bridegroom is not in a position to pay the fixed bride-price. Among the Kalmucks it is often found that the suitor abducts the unwilling girl and compels her to marry him.¹¹ Bride-capture is very common among the Purangs of Tibet ;¹² among the Bhotiyas of Almora,¹³ among

¹ Westermarck, *op. cit.*, p. 240.

² *Ibid.*, p. 240.

³ *Ibid.*, p. 240.

⁴ Rivet, ' Les Indiens Jibaros ' in *L'Anthropologie*, XVIII, 605, 615.

⁵ Simson, *Travels in the Wilds of Ecuador*, p. 172 seqq.

⁶ Im Thurn, *Among the Indians of Guiana*, p. 186.

⁷ Westermarck, *op. cit.*, p. 241.

⁸ *Ibid.*, p. 241.

⁹ *Ibid.*, p. 242.

¹⁰ Westermarck, *op. cit.*, p. 242.

¹¹ *Ibid.*, p. 242 et. seq.

¹² Das, S. C., ' Marriage Customs of Tibet ' in *Jour. Asiatic Soc. Bengal*, Vol. LXII, Pt. III, 8 sq.

¹³ Sherring, *op. cit.*, I. 108.

some of the inhabitants of Bastar¹ and the Kolams of Wardha² in the Central Provinces of India; among the Malayalis of North Arcot,³ the Mullakurumbers of Wynad⁴ and the Gonds of the Eastern Ghats⁵ in South India; among some of the aboriginal tribes of Chota Nagpur;⁶ among the Bhuiyas of Orissa;⁷ the Hos of Bengal,⁸ the Morans of Assam;⁹ among the peoples in various parts of the Malay Archipelago, e.g., Bali, Kei, etc.;¹⁰ among the inhabitants of the Babar Archipelago, among the Negritos or Negros in the Philippines, in the Bismarck Archipelago especially in the Admiralty Islands, in Bougainville, and in Buin Islands;¹¹ in Erromanga;¹² on the larger islands of the Fiji Group;¹³ among the Maoris of New Zealand;¹⁴ among the Tasmanians,¹⁵ and in all parts of Australia;¹⁶ among the Sakalava of Madagascar, among the Bushmen,¹⁷ the Hottentots,¹⁸ the Fingu,¹⁹ the Ababua, Babati and Baieu tribes,²⁰ among the forest tribes of the North-eastern Mongala Basin,²¹ among the Ngoni,²²

¹ Westermarck, *op. cit.*, 244.

² Russell, *Tribes and Castes of the Central Province of India*, I, 147.

³ Cox, *Madras District Manuals* : North Arcot, I, 218.

⁴ Nair, *Gopalan, Wynad*, p. 69.

⁵ Rao, H., 'Gonds of the Eastern Ghats,' in *Anthropos*, v. 795.

⁶ Westermarck, *op. cit.*, p. 245.

⁷ O'Malley, *Census of India, 1911*, Vol. V. (Bengal, Bihar and Orissa and Sikkim) Report, p. 315.

⁸ O'Malley, *op. cit.*, p. 315.

⁹ Endle, *Kacharis*, p. 89.

¹⁰ Westermarck, *op. cit.*, p. 245.

¹¹ *Ibid.*, p. 246.

¹² Robertson, *Erromanga*, pp. 392, 396.

¹³ Williams and Calvert, *Fiji and the Fijians*, p. 149.

¹⁴ Polack, *Manners and Customs of the New Zealanders*, I, 153.

¹⁵ Westermarck, *op. cit.*, p. 247.

¹⁶ Teplin, *Folk-Lore, Manners, Customs and Languages of the South Australian Aborigines*, p. 98.

Hodgson, *Reminiscences of Australia*, p. 243.

¹⁷ Westermarck, *op. cit.*, p. 249.

¹⁸ Theal, *op. cit.*, p. 85.

¹⁹ Westermarck, *op. cit.*, p. 249.

²⁰ Johnston, *George Grenfell and the Congo*, II, 676, 674.

²¹ Westermarck, *op. cit.*, p. 249.

²² Elmslie, *Among the Wild Ngoni*, p. 57.

the Bukobans,¹ the Bantu Kavirondo,² the Ewhe-speaking tribes of the Slave Coast,³ in Africa.

Besides the primitive world, traditions of obtaining wife by abduction, or some rites which may be explained as the relics of the old practice of bride-capture in the face of armed opposition, are found among many of the civilised peoples of to-day. Rāksasa form of marriage which means "the forcible abduction of a maiden from her home, while she cries out and weeps, after her kinsmen have been slain or wounded, and their houses broken open,"⁴ was one of the eight legal modes of marriage according to the 'Laws of Manu.' This mode of marriage was prescribed for the Kshatriyas or the Warrior caste. The tradition of bride-capture of the ancient Greeks has been handed down from generation to generation and we occasionally hear of bride-capture in Greece even to this day.⁵ "Among the Teutonic, Slavonic, Romance and other peoples of Europe it is a common custom to barricade or stop the bridal procession on its way; and this custom has been regarded by several writers as a survival of marriage by capture.... The barring of the wedding procession with a cord is also found in Gloucestershire and in Wales."⁶ "The Roman bride fled to the lap of her mother, and was carried off by force by the bridegroom and his friends. The Spartan bridegroom carried off the bride with feigned violence."⁷ The Sikhs were formerly accustomed to obtain wives by forcibly capturing girls.⁸ The Cossacks of Little Russia and Ukrانيا practised this till the 17th century,⁹ and in High Albania the custom of bride-capture obtains even to-day.¹⁰

¹ Westermarck, *op. cit.*, p. 250.

² Hobley, *Eastern Uganda*, p. 18.

³ Ellis, *Ewe-speaking People of the Slave Coast*, p. 212.

⁴ *Laws of Manu*, II, 38.26.

⁵ Dionysius of Halicarnassus, and Sakellarzios referred to in Westermarck, *op. cit.*, p. 251.

⁶ Westermarck, *op. cit.*, p. 260.

⁷ *Ibid.*, p. 269.

⁸ Russell, *op. cit.* I, 321.

⁹ Kovalewsky, *Modern Customs and Ancient Law of Russia*, 24.

¹⁰ Durham, 'High Albania and its Customs' in *J.R.A.I.*, XL, 450.

Asura form or
Marriage by Considera-
tion.

But perhaps the more widely diffused and more recognised form of marriage was Asura or marriage by consideration offered to the father or some other relative of the bride. This consideration may take any one of the following three forms :—(a) consideration in the form of exchange of bride for bride which is known as marriage by exchange; (b) consideration in the form of service, that is, the suitor may offer his services to the father of the bride for a period, this may be called marriage by service; and (c) consideration in the form of property of some kind or other—this may be dubbed as marriage by purchase, or, to be more precise, marriage by bride-price.

Examples of marriage by exchange are found in Australia;¹ in the western islands of the Torres Straits;² among the Kiwai Papuans;³ in New Guinea;⁴ in Erromanga of New Hebrides;⁵ in the Buin district of Bougainville;⁶ among the Sumatrans;⁷ among the Buryats;⁸ among the Tungus;⁹ among the wild tribes of the Afghan frontier;¹⁰ in some tribes of Beluchistan;¹¹ in the Jammu Province of Kashmir;¹² among the Bhotiyas of Almora and British Gharwal;¹³ among the lower castes of the North-Western Provinces;¹⁴ among the Jats;¹⁵ among the Madigas and

¹ Curr, *The Australian Race*, i, 107.

² Malinowski, *The Family among the Australian Aborigines*, 36.

³ Westermarck, *op. cit.*, p. 355.

⁴ *Ibid.*, p. 355.

⁵ Robertson, *Erromanga*, p. 396.

⁶ Westermarck, *op. cit.*, p. 356.

⁷ Marsden, *History of Sumatra*, p. 259.

⁸ Westermarck, *op. cit.*, p. 356.

⁹ Miss Chaplicka, *Aboriginal Siberia*, p. 106.

¹⁰ Pennell, *Among the Wild Tribes of the Afghan Frontier*, p. 193.

¹¹ Bray, *Census of India*, 1911, Vol. IV. (Beluchistan) Report, p. 101.

¹² Matin-e-Zaman Khan, *Census of India*, 1911, Vol. XX (Kashmir) Report, p. 140.

¹³ Sherring, *op. cit.*, in *Memoria, Asiatic Soc. Bengal*, I, 98.

¹⁴ Crooke, *Traces and Castes of the North Western Provinces and Oudh*, I, p. . ccxv.

¹⁵ Ibbetson, quoted *ibid.*, I, ccxv.

the Idigas of Mysore;¹ among the Santals of Bengal;² among the Peasantry of Palestine;³ and in Southern Guinea.⁴

Marriage by service has a wider distribution than any of the other two forms of Asura marriage. Examples

(b) Marriage by Service. of marriage by service are found among many of the North and South American Red Indians;⁵

among some of the Eskimos;⁶ among various Siberian peoples;⁷ among the Ainus of Japan;⁸ amongst a large number of aboriginal tribes of China,⁹ Indo-China,¹⁰ and in India among the Nagas,¹¹ the Lushai Kukis and the Turungs,¹² the Limbus and the Tipperahs,¹³ the Mikirs,¹⁴ the Mrus,¹⁵ the Kacharis, the Rabhas, the Hajongs, and the Deoris,¹⁶ the Santals, the Mundas, and the Oraons,¹⁷ the Lepchas and the Kirantis of the Central Himalayas,¹⁸ in Rajputana and in Ajmer-Merwara,¹⁹ the Bodos and the Dhimals,²⁰ the Gonds, the Korkus, the Khonds, the Mahars and the Marars of Balaghat and Bhandara;²¹ among

¹ Westermarck, *op. cit.*, p. 357.

² *Ibid.*, p. 358.

³ Wilson, *Peasant Life in the Holy Land*, p. 110.

⁴ *Idem, Western Africa*, 266 sq.

⁵ Westermarck, *op. cit.*, p. 360.

⁶ *Ibid.*, p. 360.

⁷ Jochelson, *Yukaghirs*, p. 87 sq.; *Idem, Korsak*, p. 740.

Bogoras, *Chukchee*, pp. 579, 586, 587, 609.

⁸ Westermarck, *op. cit.*, p. 361.

Miss Czaplicka, *op. cit.*, p. 102.

⁹ Gray, *China*, II, 304.

¹⁰ Westermarck, *op. cit.*, p. 361.

¹¹ Hodson, *Naga Tribes of Manipur*, p. 91.

¹² Gait, *Census of India*, 1891 (Assam), Report, pp. 251, 284.

¹³ Dalton, *Descriptive Ethnology of Bengal*, pp. 104, 110.

¹⁴ Westermarck, *op. cit.*, p. 361, n. 5.

¹⁵ Hutchinson, *Account of the Chittagong Hill Tracts*, p. 167.

¹⁶ Endle, *Kacharies*, pp. 44, 45, 85, 86, 95.

¹⁷ O'Malley, *Census of India*, 1911, Vol. V, Report, p. 315.

¹⁸ Westermarck, *op. cit.*, p. 361, n. 5.

¹⁹ Kealy, *Census of India*, 1911, Vol. XXII, Report, p. 165.

²⁰ Westermarck, *op. cit.*, p. 361, n. 5.

²¹ Russell, *Tribes and Castes of the Central Provinces of India*, III, 80, 558, 467; IV,

183, 184, 166.

the Malayalis¹ and the Mandan Chettis² of South India ; among the inhabitants of Ponape of the Caroline Islands;³ in New Britain;⁴ among several African peoples, e.g., the Bushmen,⁵ the Hottentot,⁶ the Makaranga,⁷ the Banyai of the Zambesi River⁸ the Tumbuka of British Central Africa,⁹ the Wandorobo¹⁰ the Zangas of French Sudan, the Asaba Ibo, and the Susu.¹¹

Westermarck is of opinion that the practice of serving for a period for a wife is due to the unwillingness of a father to give away his daughter for nothing—this is proved by the fact that often service is a substitute for the bride-price.¹² Besides this we think that it has another meaning—during the period of service the suitor is put to various tests and by going through them he has to prove his mettle. This has been very strongly emphasised by Dr. Jochelson. With reference to the Koryaks he states—“A serving bridegroom is not an ordinary workman. The principal thought is not his usefulness, but the hard and humiliating trials to which he is subjected. The bridegroom is given a poor bed, he is ill-fed, he is not allowed to sleep late, he is sent on exhausting errands. As a herdsman he must pass his nights without sleep, while the proprietor of the herd and the bride's brothers are resting. In a word, during his term of service, his endurance, patience and meekness, his adroitness as a hunter, and his zeal and frugality as a herdsman, are tested. The bride's father gives his assent to the marriage only after the bridegroom has stood the probation well.”¹³

¹ Westermarck, *op. cit.*, p. 861, n. 5.

² Thurston, *Castes and Tribes of South India*, IV, 445

³ Christian, *Caroline Islands*, p. 74.

⁴ Westermarck, *op. cit.*, p. 362.

⁵ Chapman, *Travels in the Interior of South Africa*, I, 259.

⁶ Westermarck, *op. cit.*, p. 362, n. 4.

⁷ Theal, *op. cit.*, p. 220.

⁸ Westermarck, *op. cit.*, p. 362, n. 4.

⁹ Fraser, *Winning a Primitive People*, pp. 153, 155.

¹⁰ Merker, *Dei Masai*, p. 232.

¹¹ Westermarck, *op. cit.*, p. 362, n. 4.

¹² *Ibid.*, p. 378.

¹³ Jochelson, *Koryak*, p. 760.

The third variety of marriage by consideration, that is, marriage by bride-price in the form of some

(c) Marriage by articles of use, or, in the form of money, or,
Bride-price. • both, has been reported to be found among the
Veddas of Ceylon and the Sakais of Perak,¹ among some of the
Australian tribes,² among the Pygmies of Central Africa,³ the
Namib Bushmen and other African peoples; among the
Angmagsaliks on the east coast of Greenland; among the Eskimos
of Ungava district of the Hudson Bay Territory,⁴ among the
Red Indians of North America,⁵ the South American Red
Indians ; the Ugro-Finnic and Turko-Tartar peoples of the former
Russian Empire, the Votyaks, the Mordvin, the Cheremiss, the
Ostyaks and the Samoyeds;⁶ among some of the tribes of India,
e.g., the Lushais ;⁷ the Morans of Assam,⁸ the Kisans of the
Central Provinces,⁹ the Mishmis,¹⁰ and the Kunnuvans of South
India;¹¹ among the Battas of Sumatra;¹² among the inhabitants
of Tenimber; the Subanu of Mindanao; the peoples of the British
New Guinea, Dutch New Guinea, Bismarck Archipelago,¹³ and
Florida in the Solomon Group.¹⁴

Thus we recognise the primitive forms of marriage in the
Āsura, the Rākṣasa, the Gāndharva, and in the Paiśācha.

¹ Westermarck, *op. cit.*, p. 375.

² Malinowski, *op. cit.*, p. 51.

Howitt, *Native Tribes of South-East Australia*, p. 220.

³ Johnston, *op. cit.*, ii, 674.

⁴ Westermarck, *op. cit.*, p. 376.

⁵ Herrington, 'Preliminary Sketch of Lenape Culture' in *American Anthropologist*, N. S., XV, 215.

Stephen, 'Navajo' in *American Anthropologist*, N. S., VI, 356.

⁶ Westermarck, *op. cit.*, pp. 378, 379.

⁷ Gait, *Census of India*, 1911, Vol. I (India), Report, p. 257.

⁸ Endle, *Kacharis*, p. 89.

⁹ Dalton, *Descriptive Ethnology of Bengal*, p. 182.

¹⁰ Westermarck, *op. cit.*, p. 381.

¹¹ Dahmen, 'Kunnuvans or Mannadis' in *Anthropos*, V, 327.

¹² Westermarck, *op. cit.*, p. 381.

¹³ *Ibid.*, p. 382.

¹⁴ Codrington, *Melanesians*, p. 238.

Of these forms it is only in the first that the previous consent of the guardians is necessary. The four higher forms of marriage as described by the Hindu sociologists would thus be recognised as non-primitive and requiring the consent of the guardians and some form of presents to the bride instead of bride-price. In the primitive levels also where the bride-price is the custom there is often some sort of exchange of gifts which may be looked upon as bridal presents. Thus, among the Bahima of Central Africa the bride's father returns three out of ten heads of cattle given to him as bride-price.¹ Similar is the case with the Bila-an of Mindanao where half of the gifts to the bride must be returned.² In his essay on the natives of Mailu, Dr. Malinowski observes that the regular exchange of gifts is one of the main features of the Papuo-Melanesian and Massim Cultures, and Prof. Seligman has also corroborated this statement.³ The *Ārsa* form is a sort of transition between the marriage by bride-price and the ceremony with presents to the bridegroom. There is much controversy as to whether the bull and the cow given by the bridegroom to the father of the bride is to be considered as 'Sulka' or consideration. If we take it to be 'Sulka' then the *Ārsa* form becomes identical with the *Āsura* form. But scholars are of opinion that the gift is to be considered as 'Arhaṇa' or a gift in order to show respect to the bride's father. Under such a construction alone can we differentiate between the *Ārsa* and the *Āsura* forms. The highest social type arrived at by the Hindu society, for the average householder, was the *Prājāpatya*. The *Daiva* and the *Brahma* forms were developments peculiar to India where the high spiritual authority and eminence of the priesthood came to be recognised.

After consent and other preliminaries have been settled between the parties, something else is required, both from the

¹ Johnston, *Uganda Protectorate*, p. 692.

² Westermarck, *op. cit.*, p. 897 sq.

³ *Ibid.*, p. 399.

legal and social points of view, to make a valid union—it consists of the performance of certain rites and of the observance of certain customs in pursuance of the old-established practices. These rites may commence from the moment when the marriage is first thought of and continue up to its conclusion. "Publicity," says Miss Burne, "is everywhere the element which distinguishes a recognised marriage from an illicit connection,"¹ and elaborate rites and ceremonies give the required publicity to a union. It is also customary that the marriage ceremony must be witnessed by some persons. A marriage performed without the presence of any witness is legally invalid. Under the Mahomedan Sunni Law it is required that at least two witnesses must be present at a wedding in order to attest to the performance of the contract of marriage.² In the Sanskrit literatures Agni (the God of Fire) is often described as the witness. A Hindu marriage performed before fire cannot be annulled.³ At a modern wedding of the Brahmins Indra, Varuna, Chandra, Yama, Brahmā, and other gods also are invoked and are requested to witness it.⁴ Among the Parsees at least five persons must be summoned to witness a marriage celebration.⁵ At a modern Hindu marriage the spiritual preceptor (Guru), the priest, and the barber are the principal witnesses.

We will now pass on to a rapid enumeration of the different rites constituting the complex of marriage ceremonies. Taking the data from the Radhiya Brahmins of Mymensingh, collected by personal observation, we will attempt to analyse them culturally and ethnically as far as possible. We have in all about thirty main rites as components of the marriage ceremony,

¹ Miss Burne, *Handbook of Folklore*, p. 203.

² Ameer Ali, *Mahomedan Law*, II, 325.

³ Winteritz, 'On a Comparative Study of Indo-European Customs, with special reference to Marriage Customs' in *Transactions of the International Folk-Lore Congress*, 1891, p. 287.

⁴ Padfield, *The Hindu at Home*, p. 102.

⁵ Modi, J. J., *Marriage Customs among the Parsees*.

which, when analysed into their component traits, appear to be as follows :—

- I. *Pāna-khil* or the ceremony of pinning betels.
(See Appendix II, Vol. VIII —Penzer-Tawney, *The Ocean of Story*.)
 - 1. Offering betel-leaves and betel-nuts to the household deity.
 - 2. Twenty-seven betel-leaves and twenty-seven betel-nuts pinned together taking three of each at a time.
 - 3. The drawing of *Alpanā*.
 - 4. 'Ulu,' music, and folk-songs.
 - 5. Mustard oil.
 - 6. Vermilion.
-
- II. *Barkumār Pujū* or the worship of goddess Bhagawati.
 - 1. Offering to goddess Bhagawati.
 - 2. Rice.
 - 3. Paddy.
 - 4. Plantain leaves.
-
- III. *Gāchēr-guṇrir Vrata* or the worship of the tree-trunk.
(Trees were appealed to as arbitrators and circumambulated and thought as givers of desires—and were also fertility symbols in ancient India.)
 - 1. Worship of the tree-trunk—banyan or *sheora* tree.
 - 2. Sweetmeats.
 - 3. Fried rice.
 - 4. Mustard oil.
 - 5. Vermilion.
 - 6. Fish.
 - 7. Red thread.
 - 8. Winnowing-fan.
 - 9. Offering to *Vana Durgā*.
-
- IV. *Tēl-Kāpar*, or the sending of oil and turmeric to the bride's house.
(Turmeric and betel are used in Malay to avoid evil spirits—see Penzer, *op. cit.*, VIII, 242.)
 - 1. The bridegroom dips his right toe in *Gandha-tail* or scented oil.
 - 2. Five different shades of coloured powder.
 - 3. Clothes and garments.
 - 4. Vermilion.
 - 5. Vermilion-box.
 - 6. Conch bangles.
 - 7. Betel-leaves.
 - 8. Betel-nuts.
 - 9. Fish.
 - 10. Sweetmeats.
 - 11. *Ghee*.
 - 12. Flour.
 - 13. Other articles of food.
 - 14. Utensils.
 - 15. These are sent to the bride's house.
 - 16. Drawing of *Alpanā*.
 - 17. 'Ulu' and music.

(Turmeric was used as a substitute for *kumkuma* (saffron) for auspiciousness and erotic significance—Peuzer, *op. cit.*, VIII, p. 18.

V. *Chōre-pāni*, or the rite of stealthily fetching water.

1. Filling a new pitcher before sunrise.
2. A married lady proceeds to the tank or stream, as the case may be.
3. She cuts the water three times with a knife.
4. Cowrie.
5. Plantain.
6. A brass ring.
7. A myrobalan.
8. A *baherā* fruit.
9. A piece of cloth dyed yellow with turmeric.
10. Eating of curd mixed with flattened rice by the bride and other married ladies.
11. Making the bride sit at *Adhiwāsa*.
12. *Ulu*.
13. An oil lamp.
14. A brass mirror.
15. Cylindrical top of a sprouting plantain leaf.

VI. *Sohāg-māgan*, or the begging of *Sohāg* from five houses of relatives.

1. Bride's mother and other ladies beg '*Sohāg*' from five different houses of relatives.
2. The bride's mother carries a winnowing-fan on her head.
3. A piece of new red-bordered *sari*.
4. Vermilion.
5. Turmeric.
6. *Rādhni*.
7. Betel-leaves.
8. Betel-nuts.
9. Music and *Ulu*.
10. Pitcher.
11. Drawing of *Alpanā*.
12. The housewife of each house puts mustard oil, vermillion, turmeric, and *rādhni* into the earthen pots placed on the winnowing-fan.
13. Husking of paddy with the foot.
14. Placing the winnowing-fan on the *Alpanā*.
15. A husking implement.
16. A pestle for husking.
17. A yoke.
18. A spade.
19. The father of the bride digs earth with the spade and throws it into the winnowing-fan in a particular fashion.

20. The parents husk rice with their clothes knotted together—the father takes the yoke, and the mother takes the pestle.

21. Ceremonial bath.

VII. *Nändeemukha*, or the offering to the manes.

1. Offerings to the dead ancestors, by the father of the bride or that of the bridegroom.
2. Rice, fruits, and water.

VIII. *Subha-yātrā* or the ceremonial send-off.

1. Preparations for starting for the bride's house.
2. The bridegroom chants some *Mantras* and smells a crushed leaf of the wood-apple tree.
3. He sits just beyond the door-lintel.
4. A small pitcher containing water is placed before him.
5. A mango twig with five leaves.
6. An oil lamp.
7. Paddy.
8. *Durvā* grass.
9. Fish.
10. Vermilion.
11. Saluting the elders.
12. Music and *Ulu*.
13. A coronet of cork.
14. The sister of the bridegroom thrusts a broken needle into the coronet.
15. The bridegroom starts for the bride's house.

IX. *Varana*, or the welcoming of the bridegroom and accepting him as the suitor.

1. The giver offers a change of garments.
2. Uncovering of the pitcher containing *Chōre-pāni*.
3. Garlanding the bridegroom.
4. Inviting him for marrying the girl.

X. *Subha-dṛṣṭi*, or the ceremonial exchange of glances.

1. The bride and the bridegroom look at each other.
2. Exchange of garlands.
3. Throwing of flowers, betel-leaves, cylindrical tops of sprouting plantain leaves.
4. Carrying the bride seven times round the marriage-altar.

XI. *Pādya*, or the offering of water to the bridegroom.

1. Offering of water for washing of the bridegroom's feet by the person giving away the bride.
2. Pouring of water on the feet of the bridegroom.

XII. *Arghya*, or the offering of oblations to the bridegroom.

1. Offering of oblations to the bridegroom.
2. *Dūrvā* grass.
3. Sunned rice.
4. Flowers.
5. Sandal-paste.
6. Leaves of the Holy Basil.
7. *Madhuparka* (a mixture of curd, sugar, milk, and honey).

XIII. *Sampradān* and *Pāṇigrahaṇa*, or the giving away of the bride and the joining of hands.

1. The actual giving away of the bride and the acceptance of the gift by the bridegroom.
2. The holding of the right palm of the bride with the right palm of the bridegroom.
3. The placing of five kinds of fruits over the joined palms.
4. The tying of the palms with *Kuśa* grass.
5. Offering flowers to god Prajāpati.
6. Leaves of the wood-apple tree.
7. Sandal-paste and flowers.
8. A few grains of sesamum.
9. A few leaves of the Holy Basil.
10. A copper receptacle of water.

XIV. *Gāṇṭh-chharā*, or the tying of the hems of the couple's garments in a knot.

1. The tying of one end of the towel containing five kinds of fruits to one end of the bridegroom's scarf, and the other end of it to the hem of the bride's *sāri*.

XV. *Kṣir-bhōjan*, or the rites connected with the eating by the couple from the same plate.

1. The eating of *Pāyasa* from the same dish by the groom first and then by the bride.
2. The groom offers the *Pāyasa* to the five gods.
3. He takes a sip of water.
4. He divides the contents into four portions by drawing two cross lines with a ring.
5. The bride takes a portion of the same.

XVI. *Hōmas*, or the offerings of *ghee* to the fire.

1. Offering of *ghee* to the fire.
2. Offering of *Samidh* dipped in *ghee*.

- XVII.** *Aṣmākramana*, or the treading on the stone.
1. The groom places his hand under the joined palms of the bride from behind.
 2. The bride places her right foot on the curry-stone.
- XVIII.** *Lāja Hōma*, or the offering of parched grains to the fire.
1. Pouring of *ghee* on the joined palms of the bride by the bridegroom.
 2. Pouring of parched grains into the fire by the bride—this is repeated thrice.
 3. Pouring of parched grains into the fire by the bride and bridegroom together out of the winnowing-fan.
- XIX.** *Agni-parikramana*, or the circumambulation of fire.
1. The bride and the bridegroom go round the fire three times.
- XX.** *Sapta-padi-gamana*, or the ceremony of seven steps.
1. The bride treads on the curry-stone with her right foot.
 2. The bridegroom makes her walk seven steps through the seven squares.
 3. The priest sprinkles some water over the head of the couple.
 4. The bridegroom holds the right palm of the bride.
- XXI.** *Uttara-vivāha* ...
1. The bridegroom offers six oblations of *ghee* to the fire.
 2. He sprinkles *ghee* over the head of the bride.
- XXII.** *Arundhati-darśana*, or star-gazing.
1. The bridegroom shows the stars 'Dhruva' or the Pole-star, and 'Arundhati,' a star in the constellation of the Pleiades ; this is done theoretically.
- XXIII.** Sitting upon an ox-hide
1. The bridegroom chants some *Mantras* which mean that he is making the bride sit on a red bull's hide.
- XXIV.** Placing a boy on the lap of the bride.
1. A baby boy is placed on the bride's lap.
 2. He is given a fruit to hold in his hand.
- XXV.** *Chaturthi-hōma*, or the final offering of *ghee* to the fire.
1. Twenty oblations of *ghee* are offered to the fire by the bridegroom.
 2. The couple stand to the north of the fire.
 3. The bridegroom sprinkles some water and *ghee* over the head of the bride.
 4. The groom takes some vermillion with his ring and marks the parting of the bride's hair with it.¹
 5. He places a veil on the bride's head.

¹ Marking with vermillion is a possible survival of an original blood-rite. (See Penzer-Tawney, *The Ocean of Story*, Vol. II, p. 28 n.)

XXVI. *Vāsi-vivāha*

- ... 1. The couple take their baths in the following morning and are then led to the plantain trees in the four corners of the marriage altar.
- 2. The priest takes a pitcher filled with water.
- 3. He, followed by the couple, goes round the trees three times.
- 4. As they circumambulate, the priest pours some water at the roots of each tree.

XXVII. *Badhū Varana*, or the reception of the bride.

1. Five married ladies come out to receive the couple.
2. They carry a fan, a pitcher full of water, some raw fish, a vermilion-box and some parched grains in a winnowing-fan.
3. They place the vermilion-box, and the fish in the hand of the bride.
4. One of the ladies fans the bride.
5. The other ladies sprinkle some water and parched grains on the path as the couple move for indoors.
6. In the courtyard inside the house is drawn an *Alpanā* and a thin mat is placed over it.
7. The bride and the bridegroom stand on the mat over which a cloth is spread, and under the cloth are placed seven betel-leaves, seven betel-nuts, and seven cowries.
8. At one end of the mat there are five burning oil lamps, and five pitchers filled with water are placed at the other end of the mat.
9. The bridegroom's mother receives the couple with two earthen lamps tied together with red thread.
10. She touches the heads of the couple with two pitchers full of water.
11. A similar operation is repeated with two burning oil lamps.
12. The bridegroom's mother holds her palm over the flames of the lamp and touches the foreheads of the couple.
13. She blesses the couple and strews some paddy and *Dūrvā* grass over their heads.
14. The sisters of the bridegroom put some sugar into the mouth, and some honey into the ear-holes and eyes of the bride.

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15. The bride places the vermillion-box and the fish on the mat.
 16. The couple then sit on the lap of the bridegroom's mother who takes her sea on a husking implement.
 17. Then the couple are led to a room.
 18. At one corner of the room is placed a pitcher containing water, a rupee and some rice—the bride attempts to put her hand inside the pitcher when the brother of the bridegroom prevents her from doing so—the bride hands over the pitcher to him.
 19. The couple play with cowries and paddy.
 20. The bride presses the bridegroom's hand with a pestle.
 21. The bridegroom pretends to be angry.
 22. The bride begs him to appease his wrath and tries to please him by brushing his feet with the ends of her hair and by offering betel to him.
 23. The couple are then blessed by the elders in order of seniority and preference.
 24. At noon the bride is led into and shown the kitchen.
 25. The bridegroom must not see the bride in course of the rest of the day or the night following.

We should also mention in this connection the custom of '*Stree-āchār*', or the rites by ladies only, for the sake of comparison. This is one of the very important rites found in Western Bengal only, and it immediately follows the rite known as '*Subha-dṛṣṭi*'. We can analyse this rite in a similar manner and we find that it consists of the following eight component sub-traits :—

Stree-āchār

- ... 1. Seven married ladies go round the couple with burning torches and are led by the mother of the bride.
- 2. The bride's mother carries a winnowing fan on her head and it contains twenty-one small burning earthen lamps.
- 3. As the ladies go round the couple they sprinkle water, blow conch-shells, etc.

4. At the completion of the seventh round the bride's mother throws the lamps behind the bridegroom by passing them over his head.
5. The bride's mother then stands on the winnowing fan and touches the forehead of the bridegroom with water, paddy, *Dūrvā* grass, betel-leaves, betel-nuts, seeds of white mustard, curd, white sandal-paste, vermillion, a looking-glass, a comb, a bit of clay from the bed of the River Ganges, a yak's tail, shells, a cluster of plantains, and certain other odds and ends.
6. The bridegroom's height is then measured with a thin thread which the bride's mother eats in a bit of plantain.
7. The bride's mother then places a weaver's shuttle between the folded hands of the bridegroom and ties them with thread, and calls upon him, now that he has been bound hand and foot, to bleat like a sheep.
8. She, finally, touches his breast with a padlock and turns the key.

XXVIII. *Pāka-sparśa*, or the ceremony of acceptance of the bride as a member of the household.

1. The bride takes her bath in the morning and then she is led into the kitchen.
2. She reduces some turmeric into pulp.
3. She marks the oven with vermillion mixed with oil.
4. She then throws some *Dūrvā* grass, a few grains of paddy at the oven and prostrates herself before it.
5. She then throws some salt, a few cumin seeds, a few fenugreek seeds, and some *radhnī* into the oven.
6. She then cooks some rice and one or two varieties of dishes.
7. At noon the bridegroom offers her a piece of new cloth and a dish containing cooked rice and cooked dishes.
8. The bride serves the relatives of the bridegroom and the bridegroom himself with rice mixed with *ghee*, but they do not partake of it.
9. The articles offered at the time of '*Bhāt kāpar*' (7) are—curd, sweet-meats, *Pāyasa*, a cloth, mustard oil, vermillion, a vermillion-box, a looking-glass, a leaf of cotton wool impregnated with lac dye, and a silver coin.

XXIX. *Subha-rātri*, or the rites preceding consummation of marriage.

1. Eating from the same dish—the husband first and then the wife.
- 2 Exchange of betels.
3. Deranging of the bed by the husband.
4. Arranging of the same by the wife.
5. The husband unties one corner of the mosquito curtain, and the wife ties it—this rite and the previous one are repeated seven times.
6. Exchange of garlands.

XXX. *Hasta-sparśa*, or the final rite.

1. The wife serves the relatives of her husband and the husband himself with rice mixed with *ghee* at the following noon this time everybody eats the food served by her.

It would be easy at the outset to pick up the Indo-European elements as those which are mentioned in the Hindu scriptures and which are also found amongst the European branch of the Aryan stock, and also to have a geographical area of distribution.

"The joining of hands, or the bridegroom's taking the bride by the hand," says Westermarck, "has of old been one of the most important marriage ceremonies among all Indo-European peoples."¹

Indo-European traits :—(a) *Pāñigrahanā*. In the *Gṛihya Sūtras*,² as well as in the *Vedas*³ wherein the husband is described as "Hastagrāha" or the "Hand-taker," we find reference of this custom. Moreover, 'Pāñigrahana' is a common name for 'wedding' in Sanskrit. This rite symbolises the union of the bride and the bridegroom and is intended to strengthen the marriage tie. The custom of the clasping of hands is also found among many other peoples, e.g., among the Wabondei of Africa;⁴ among the Abyssinians where the parties crook their little fingers;⁵ among the Nufors of New Guinea;

¹ Westermarck, *op. cit.*, p. 439.

² *Gṛihya Sutras*, San., I, 18, 2; Asv., I, 7, 3 and 5.

³ Winteritz, *op. cit.*, p. 282.

⁴ Westermarck, *op. cit.*, p. 439.

⁵ Parkyns, *Life in Abyssinia*, II, 54.

⁶ *Wabondei*.

among the Benua of Malacca;¹ among the Gonds of the Eastern Ghats in South India;² among the Kadupattans of Cochin in South India;³ in Burma;⁴ in Rome⁵ and in Germany.⁶ But among the following peoples besides joining the palms of the bride and the bridegroom they tie their palms together as well :—in Poland, Bulgaria and among the Saxonians of Transylvania;⁷ among several castes of South India, Bengal and Lahore;⁸ among the Parsees;⁹ among the Sinhalese;¹⁰ and among the Ahoms of Assam.¹¹

As a more primitive substratum of this rite, most probably, was the rite known as *Gānṭh-chharā* or the

Gānṭh-chharā. The ceremony of tying the upper garments of the couple, found more amongst the primitive peoples. Thus, among the Veddas a thin cord is tied round the waists of the bride and the bridegroom.¹² In Burma, a ribbon is stretched round them.¹³ Among the Chakmas of Chittagong “the bride and the bridegroom are made to sit together, and two of their relations, a man and a woman, with the consent of all present, tie the couple together with a white cloth.”¹⁴ Among the Hindus of South India the priest tie together the ends of the upper garments of the couple.¹⁵ The rite known as ‘Chedachedi’ among the Parsees also bears this trait.¹⁶ Among the

¹ Newbold, *Account of the British Settlements in the Straits of Malacca*, II, 470.

² Rao, H., ‘Gonds of the Eastern Ghauts,’ in *Anthropos*, V, 794.

³ Iyer, L. K. A., *Cochin Tribes and Castes*, Vol. II

⁴ Shway Yoe, *The Burman*, p. 57.

⁵ Westermarck, *op. cit.*, p. 440.

⁶ Winternitz, *op. cit.*, p. 282.

⁷ Westermarck, *op. cit.*, p. 440.

⁸ Winternitz, *op. cit.*, p. 283.

⁹ Modi, J. J., *op. cit.*

¹⁰ Percival, *An Account of the Island of Ceylon*, p. 180.

¹¹ Parry, *The Lakhers*.

¹² Seligman, *Veddas*, p. 97.

¹³ Fielding Hall, *The Soul of a People*, p. 187 sq.

¹⁴ Hutchinson, *Account of the Chittagong Hill Tracts*, p. 97.

¹⁵ Padfield, *The Hindu at Home*, p. 104 sq.

¹⁶ Modi, J. J., *Marriage Customs among the Parsees*.

Moriori of the Chatham Islands a thin rope of plaited grass is placed round the necks of the couple.¹ In China, after the couple have sipped some wine and changed glasses, the hair of the bridegroom is fastened to that of the bride.² And among the Southern Gallas of Africa each person present at the wedding ties a knot in the fringe of the bridegroom's toga and in the fringe of the bride's garments ; these knots are never undone.³

An extremely frequent and widespread marriage rite, which is definitely Indo-European as well as primitive, is the eating together of the bride and the bridegroom. It is the main incident of the rite called ' *Kṣīr bhōjan*' in Mymensingh. It has been found to occur in some form or other among the Navaho and the Pawnee of America;⁴ in Fiji;⁵ in Mangaia (Harvey Islands) ;⁶ and the Lepers' Island (New Hebrides)⁷ in the Pacific ; in the Malay Archipelago,⁸ in the Malay Peninsula ;⁹ among the Shans¹⁰ and the Burmese¹¹ in Burma ; among the Miris,¹² the Magh tribes of Chittagong,¹³ the Santals,¹⁴ the Iruans of Gingee Hills,¹⁵ the hill tribes of Central Indian Hills,¹⁶ the Chakmas,¹⁷ the Gonds, and the Korkus,¹⁸ and among

¹ Tregear, *The Maori Race*, p. 580.

² Leong and Tao, *Village and Town Life in China*, p. 107.

³ Wakefield, ' Marriage Customs of the Southern Gallas' in *Folk-Lore*, XVIII, 321.

⁴ Grinnell, *Story of the Indian*, p. 46.

⁵ Williams and Calverts, *Fiji and Fijians*, p. 146.

⁶ Westermarck, *op. cit.*, p. 449.

⁷ Codrington, *Melanesians*, p. 242.

⁸ Crawley, *The Mystic Rose*, p. 379 sqq.

⁹ Skeat and Blagdon, *Pagan Races of the Malay Peninsula*, II, 57, 77.

¹⁰ Westermarck, *op. cit.*, p. 250 n. 1.

¹¹ Fielding Hall, *op. cit.*, p. 188.

¹² Barua, *Notes on the Marriage Systems of the Peoples of Assam*, p. 54.

¹³ Hutchinson, *op. cit.*, p. 119 sq.

¹⁴ Dalton, *Descriptive Ethnology of Bengal*, p. 216.

¹⁵ Rao, H., ' Iruans of the Gingee Hills ' in *Anthropos*, VI, 311.

¹⁶ Westermarck, *op. cit.*, p. 250, n. 1.

¹⁷ Hutchinson, *op. cit.*, p. 97.

¹⁸ *See my 2nd Hinjli ' in *op. cit.*, p. 27.*

the higher castes of the Hindus in modern¹ and ancient India;² among the Parsees;³ among the Sakalava of Madagascar;⁴ in Morocco,⁵ and among the Niam-Niam⁶ of Africa; in ancient Greece,⁷ and among the Slovens of Corinthia in modern Greece;⁸ in ancient Italy;⁹ and in Switzerland, Germany, Belgium, Sweden, Russia, and among various Ugro-Finnic peoples of modern Europe.¹⁰ "Yet," says Wertermarck, "in spite of its occurrence among so many peoples of the Indo-European race we cannot be certain that it was a primitive Indo-European custom."¹¹ In support of this contention he has put forward the views of Winternitz who is of opinion that this custom originated independently among the different branches of the Indo-European race. Winternitz, as quoted by Westermarck, says: "It would be different if we found exactly the same kind of dish—say, the wedding cake—used among all the different Indo-European peoples, or if the ceremony had its fixed place in the marriage ritual, like the joining of hands, and some other customs."¹² But we are of opinion that so important and widespread a rite has, very probably, an Indo-European origin. In support of our contention we may say that if we analyse the range of possible variation in some of the other customs, such as the scattering of cereals, which is undoubtedly Indo-European in origin, we find that it is quite possible and probable that the different kinds of dish were adopted by the different peoples according to their convenience and choice.

¹ Padfield, *op. cit.*, p. 111 sq.

² *Grihya Sutras*, II. 49.

³ Modi, *J. J.*, *op. cit.*

⁴ Westermarck, *op. cit.*, p. 449.

⁵ *Idem, Marriage Ceremonies in Morocco*, pp. 231, 251, 268.

⁶ *Idem, History of Human Marriage*, Vol. II, p. 449.

⁷ *Ibid.*, p. 450.

⁸ *Ibid.*, p. 454, n. 2.

⁹ Fowler, *Social Life at Rome in the Age of Cicero*, p. 186.

¹⁰ Westermarck, *op. cit.*, p. 451, n. 2.

¹¹ *Ibid.*, p. 451.

¹² *Ibid.*, p. 451.

Another marriage rite—the rite of scattering some kind of cereals or fruits—has been traced to the primitive Indo-European times.

(c) *Lāja Hōma*. The throwing of parched grains to the fire is the main incident of the rite known as *Lāja Hōma* among the higher castes of India. But we find, more than often, that the cereals or fruits, or both, are thrown over the heads of the couple. It has also been found that the custom of scattering cereals extends from India, Indo-China, and the Indian Archipelago in the East to the Atlantic Ocean in the West. We may also suggest that it is one of the rites performed in order to ensure and promote fecundity, or, may be, to ensure prosperity and abundance only. Thus the Guanches of the Canary Islands throw grains on the faces of the newly-weds.¹ In Siberia among the Buryats,² in China,³ and in Tibet⁴ boiled rice in five bunches is suspended from the curtain-frame of the bridal bed. In Siam the bride and the bridegroom are sprinkled with rice, scented oil, and flowers.⁵ Among the Karens of Martaban some rice are placed on the heads of the couple.⁶ In India we can trace the custom of offering parched grains to the fire from the Grihya Sūtras through the Classical Sanskrit literature down to the present day.⁷ Among the Hindus of South India rice is thrown at the pair.⁸ Among the Gonds of the Eastern Ghats the assembled females throw yellow-coloured rice on the couple.⁹ Among the Yanadis of North Arcot the bride and the bridegroom throw a handful of rice on

¹ Cook, A. C., 'Aborigines of the Canary Island' in *American Anthropologist*, N. S., II, 478.

² Miss Czaplicka, *op. cit.*, p. 119.

³ Doolittle, *Social Life of the Chinese*, I, 76, 79, 83 sq.

⁴ Das, S. C., 'Marriage Customs of Tibet' in *Jour. Asiatic Soc. Bengal*, Vol. LXII, Pt. III, 19.

⁵ Young, *Kingdom of the Yellow Robe*, p. 95.

⁶ Westermarck, *History of Human Marriage*, Vol. II, p. 471.

⁷ *Ibid.*, p. 471.

⁸ Padfield, *op. cit.*, p. 108.

⁹ Rao, H., in *Anthropos*, V. 794.

each other's head three times.¹ Among the Coorgs the bridegroom strews a few grains of rice upon the bride's head.² Among the Mundas of Chota Nagpur the bridegroom throws three handfuls of rice at the forehead of the bride, and she also does the same in her turn.³ Customs which partake of a similar nature are also found among the Oraons of Chota Nagpur;⁴ in Bihar;⁵ in Daristan;⁶ among the Marathas;⁷ among the Parsees;⁸ among the Berads of Bombay;⁹ and among the high-caste Hindus of the Punjab.¹⁰ In Syria and Palestine they throw grains and salt on the people assembled at a wedding.¹¹ Among the Wabondei of Central Africa rice and maize are thrown over the heads of the pair.¹² In Morocco the bride is received with grains, flour, bread, etc.¹³ In South Albania the bridegroom's mother throws rice over the bride.¹⁴ In ancient Greece dates, figs, nuts, coins, etc., were showered on the couple, and in modern Greece coins, rice, cotton-seeds, etc., are scattered over the bridal procession.¹⁵ In Italy grains are thrown over the couple or over the bridal party; and among the old Prussians the bride was taken to all the doors of her new home, and at each door she was sprinkled with barley, wheat, and pulse.¹⁶ In the Slavonic countries among the Great Russians, White Russians, Southern Slavs, and Little Russians

¹ Cox, *Madras District Manuals* : North Arcot, I, 250.

² Moegling, *Coorg Memoirs*, p. 39.

³ Ray, S. C., *Mundas*, p. 447.

⁴ Ray, S. C., *The Oraon Religion and Religious Customs*.

⁵ Grierson, *Bihari Peasant Life*, p. 364 sq.

⁶ Biddulph, *Tribes of the Hindoo Koosh*, p. 79 sq.

⁷ Shastri, in the *Punjab Notes and Queries*, I, 99.

⁸ Modi, J. J., *Marriage Customs of the Parsees*.

⁹ Crooke, in *Folk-Lore*, XIII, 235.

¹⁰ Maya Das, in the *Punjab Notes and Queries*, p. 98.

¹¹ Westermarck, *op. cit.*, p. 482.

¹² *Ibid.*, p. 478.

¹³ *Idem, Marriage Ceremonies in Morocco*, pp. 194-198, 201, 204-207, 209, 211-214, 216.

¹⁴ Miss Durham, *High Albania*, p. 86.

¹⁵ Westermarck, *History of Human Marriage*, II, p. 473.

¹⁶ *Ibid.*, p. 475.

the bride and the bridegroom are sprinkled with corn, or corn and hops, or corn and almonds and coins, or hops or wheat, or hops or grains and nuts.¹ Among the Ugro-Finnic peoples this custom of throwing barley or wheat is found.² In some parts of France hemp-seed or wheat is showered over the couple, and in Silesia and Bohemia peas or grains of peeled barley are thrown over the bride and the bridegroom.³ In England other things than rice were formerly, and are still in some places, thrown on the bride apart from the modern adoption of confetti.⁴ Lastly, among the Jews all over the world are found similar customs of throwing wheat or similar other things.⁵

Agni-parikramana or the circumambulation of fire is said to be a customary rite among the Indo-Europeans.

(d) *Agni-parikramana*. In the Vedas it is found that the joining of hands was followed by the ceremony of leading the bride three times round the sacrificial fire,⁶ and in the Grihya Sūtras too we read of an identical practice.⁷ This rite is still performed by the higher-caste Hindus of India. Among the Merina of Madagascar, the bridal procession goes three times round the fire-place.⁸ Among the Aith Sadden near Fez it was formerly the custom that the mother of the bridegroom led the bride to the fire-place.⁹ Among the Croats the bridesman leads the bride three times round the fire of the hearth and each time the bride bows before it ; and in many parts of Germany the bride is led three times round the fire by the bridegroom or his mother.¹⁰ In

¹ *Ibid.*, p. 474.

² Westermarck, *op. cit.*, p. 476.

³ *Ibid.*, p. 475.

⁴ *Ibid.*, p. 478.

⁵ *Ibid.*, p. 477.

⁶ Crooke, *Popular Religion and Folk-Lore of Northern India*, I, 11; Padfield, *op. cit.* p. 106 sq.

⁷ Grihya Sūtras, I, 168, 283, 284; II, 46, 191, 260, sq.

⁸ Padfield, *op. cit.*, p. 108 sq.

⁹ Granddidier, *Ethnographie de Madagascar*, II, 183.

¹⁰ Westermarck, *op. cit.*, p. 512.

Westphalia¹ and in the North-Eastern part of Scotland² the bride is simply led to the hearth.

Among several Indo-European peoples we find that the rite
 (e) Sitting on an animal skin. of making the bride alone, or the couple together, sit upon an animal hide was, or still is, customary; and has therefore been considered to have originated in the ancient Indo-European times. Thus, in the Atharva Veda we find that the bride, as soon as she arrived at her new home, was made to sit upon a red bull's hide. But in two of the Grhya Sūtras we find that it was customary for both the bride and the bridegroom to sit upon the red bull's hide.³ The Nambuthiri and the Tamil Brahmins of South India still observe this rite,⁴ but in Bengal it is now done only theoretically by chanting hymns which mean that the bride is being seated on a red bull's hide. In Rome the custom was to place the bride on a sheep-skin, but the Slavonic peoples use a fur, a cushion, or a piece of cloth.⁵

Another rite practised with a view to making the wife
 (f) Placing a boy on the bride's lap. fruitful, or the mother of male children, is the placing of a boy on the lap of the bride. This also seems to be Indo-European in origin on account of its occurrence among many peoples of the Indo-European race. But this rite of placing a boy on the bride's lap which is the custom found in India, has undergone a great variation among the different peoples. We learn from the Grhya Sūtras that in ancient India, as soon as the bride entered her new home and sat upon a red bull's hide, a boy of very tender age was placed on her lap as a symbol of male progeny.⁶ In Bengal, in addition to the above custom, the boy is given a fruit to eat. Among the

¹ *Ibid.*, p. 512.

² Gregor, *Notes on the Folk-Lore of the North-East of Scotland*, p. 93.

³ Winternitz, *op. cit.*, p. 273 sq.

⁴ Iyer L. K. A., *Cochin Tribes and Castes*, Vol. II.

⁵ Westermarck, *op. cit.*, p. 470.

⁶ *Ibid.*, p. 469.

Manchus in China, when the bridal sedan chair is sent to the bride's house it is generally occupied by a little boy.¹ Among the Roman Catholics of Scutari, a little boy is placed into the carriage in which the bride drives from the church to the bride-groom's house.² Among the Masai in Africa a boy is placed on the bride's lap at the time of marriage.³ In some parts of Sweden the bride must have a baby boy to sleep with her on the night before the wedding.⁴ Among the Estonians and the Slavonic peoples a boy is placed on the bride's lap.⁵

Besides these Westermarck records some traits such as the purificatory bath, fasting on the wedding day, keeping awake on the wedding night, etc., as fairly widespread. On the other hand, some taboo previous to the consummation of marriage seems to be still more universal and may go back to the most primitive times.

The custom of bathing the bride alone, or both the bride (g) Purificatory bath. and the bridegroom, for purificatory purposes at the time, or just before the marriage ceremony, is very widespread. We find this custom to be universal among some branches of the Indo-European race, e.g., the ancient and modern Hindus considered, and still consider, the bathing of the bride and the bridegroom before the marriage ceremony as of primary importance.⁶ Similar is the custom with the Parsees.⁷

The ancient and modern Greeks bathe both the bride and the bridegroom like the Hindus, but in Rumania and Sweden it is the bride alone who is bathed.⁸ Among the Mahomedans of

¹ Stewart-Lockhart, In *Folk-Lore*, I, 486.

² Westermarck, *op. cit.*, p. 468.

³ Merker, *Die Massai*, p. 48.

⁴ Lloyd, *Peasant Life in Sweden*, p. 85.

⁵ Westermarck, *op. cit.*, p. 468.

⁶ Winternitz, *op. cit.*, p. 274 sq.; Padfield, *op. cit.*, p. 108.

(Grierson, *op. cit.*, p. 370.

⁷ Atkinson, *Customs and Manners of Women in Persia*, p. 43.

⁸ Westermarck, *op. cit.*, p. 505.

Morocco,¹ Fez² and Tunis³ also the couple take a ceremonial bath before the marriage ceremony. The bride, among the Bedouins of Sinai, is led to a running stream in a procession of ladies and is bathed there on the wedding day.⁴ The ceremonial bathing of the couple is also found among the inhabitants of South Celebes⁵ and Northern Rhodesia⁶ in the primitive world.

In addition to the Indo-European rites discussed above we find several other rites practised by the (h) Local Indo-Vedic. Brahmins of Mymensingh and which are common to the Indian branch of the Indo-European race. We may describe these rites as Indo-Aryan on account of their being confined among the higher castes of India alone. Thus, Varana or the ceremonial acceptance of the suitor as the husband of the bride ; Pādya, or the offering of water to the bridegroom for washing his feet ; and Arghya or the offering of oblations to the bridegroom are the rites which seem to be purely Indo-Aryan in origin, and from these we can guess the amount of esteem with which the suitor was held on the wedding day. Again, the rite known as Nāndeemukham which was the ceremony connected with the offering of oblations to the manes in order to honour them and to solicit their blessings, finds its parallel, besides India, in China only.⁷ Other Indo-Aryan rites are Subha-dṛṣti or the ceremonial exchange of glances, Sapta-padi-gamana or the ceremony of seven steps, Uttara-Vivāha which consists in the offering of ghee to the fire in the course of chanting several hymns, and Arundhatī Darsana or the star-gazing.

¹ Westermarck, *Marriage Ceremonies in Morocco*, pp. 120, n. 2, 161, n. 3, 120, 161, 162, 321, n. 9.

² Lane, *Arabian Society in the Middle Ages*, 234.

³ Westermarck, *History of Human Marriage*, Vol. II, p. 504.

⁴ Palmer, *Desert of Exodus*, p. 90.

⁵ Westermarck, *op. cit.*, p. 506.

⁶ Gouldsbury and Sheane, *Great Plateau of Northern Rhodesia*, p. 160 sq.

⁷ Chem, *Patriarchal System in China*, p. 4.

There are some taboos which prevent the couple from eating something or from doing some acts of particular kinds. Thus, among some people we

II. Primitive taboos:
(a) **Fasting.**

find that the couple must not eat anything on the wedding day until the marriage ceremony is over, e.g., among the higher castes of Bengal; in Russia;¹ among the Masai of Africa;² and amongst several of the Amerindian tribes, *viz.*, the Peruvians,³ the Macusi⁴ and the Tlingit.⁵

Another taboo is against sleeping on the wedding night.

(b) **Keeping awake.**

It has an Eastern distribution which extends from India to New Guinea. Examples of the observance of this taboo are found among the higher castes of India;⁶ among the Khyounghtha of Chittagong;⁷ among some of the Sumatrans;⁸ in Java the taboo is for the night before the wedding, among the Dayks of Borneo;⁹ and among the Nufors of Dutch New Guinea.¹⁰

Another taboo which is most universal and can be considered as very primitive is that of abstinence from the act of cohabitation after marriage. The

(c) **Abstinence before consummation.**
for consummation.

period of abstinence before the consummation of marriage varies with the different peoples. Instances of such abstinence may be quoted from all parts of the globe. The following are the examples of such abstinence with their corresponding period :—

(1) Among the Tlingit of North America—four weeks.¹¹

¹ Westermarck, *op. cit.*, p. 545.

² Merker, *op. cit.* p. 48.

³ Westermarck, *op. cit.*, p. 545.

⁴ Im Thurn, *Among the Indians of Guiana*, p. 222.

⁵ Bancroft, *Native Races of the Pacific States of North America*, I, 111.

⁶ Westermarck, *op. cit.*, p. 547.

⁷ Lewin, *Wild Races of South-Eastern India*, p. 130.

⁸ Marsden, *History of Sumatra*, p. 269.

⁹ Westermarck, *op. cit.*, p. 547.

¹⁰ Fraser, *Folk-Lore in the Old Testament*, I, p. 511 sq.

¹¹ *ibid.* 111.

- (2) Among the Red Indians of British Columbia—generally four nights.¹
- (3) Among the Nookat of North America—10 days.²
- (4) Among some of the other Red Indian tribes of North America, the period varies from a few months to even a year.³
- (5) Among the ancient Mexicans—4 days.⁴
- (6) Among the Karaya of Brazil—more than 4 days.⁵
- (7) Among the natives of Fraser Island, Queensland—nearly two months.⁶
- (8) Among the Roro-speaking tribes of British New Guinea—a few weeks.⁷
- (9) Among the Dyaks of Dutch Borneo—the first night.⁸
- (10) In the Barito Valley of Dutch Borneo—3 nights.⁹
- (11) Among the Arunta and Loritja of Australia—till the second night.¹⁰
- (12) Among the Euahlayi of Australia—one moon.¹¹
- (13) Among the Madurese and in some parts of Eastern Java—until the third night.¹²
- (14) In Central Sumatra—three nights.¹³
- (15) Among the high families of Southern Celebes—about a month.¹⁴
- (16) In the Kei Island—three nights.¹⁵

¹ Westermarck, *op. cit.*, p. 548.

² Bancroft, *op. cit.*, II, 261.

³ Westermarck, *op. cit.*, p. 548.

⁴ Clavigero, *History of Mexico*, I, 320 sq.

⁵ Westermarck, *op. cit.*, p. 549.

⁶ Brough Smyth, *Aborigines of Victoria*, I, 84 n*.

⁷ Seligman, *Melanesians of British New Guinea* p. 270.

⁸ Westermarck, *op. cit.*, p. 552.

⁹ *Ibid.*, p. 553.

¹⁰ Westermarck, *op. cit.*, p. 551.

¹¹ Mrs. Langloh Parker, *Euahlayi Tribe*, p. 58.

¹² Veth, *Java*, IV, 396.

¹³ Westermarck, *op. cit.*, p. 553.

¹⁴ *Ibid.*, p. 553.

¹⁵ *Ibid.*, p. 554.

- (17) In the Patani States of Malacca—three nights.¹
- (18) Among the Kachins of Chingpaws of Upper Burma—several days.²
- (19) Among the Khyoungtha of Chittagong—seven days.³
- (20) In some of the wild tribes of Assam—three nights.⁴
- (21) Among the Kacharis—five days.⁵
- (22) Among the Hindu Chutiyas of Assam—one week.⁶
- (23) Among the Ao Nagas—six nights.⁷
- (24) Among the Angami Nagas—nine or ten days.⁸
- (25) Among the Nagas of Manipur—about a month.⁹
- (26) Among the Rajjhars of the Central Province—the first night.¹⁰
- (27) Among the Nayars, Variyars, Pisharotis, and the Nambuthiri Brahmins—till the fourth night.¹¹
- (28) Among the Ulladans of Cochin—one or two weeks.¹²
- (29) Among the persons belonging to the Agasa caste of Mysore—a fortnight.¹³
- (30) Among the Kurubas of South India—three months.¹⁴
- (31) Among the Kammas, a Telugu caste—three months.¹⁵
- (32) Among the Wazirs of Bannu in the Punjab—the period is not fixed, but they observe the taboo for a long time.¹⁶

Ibid., p. 554.

Scott and Hardiman, *Gazetteer of Upper Burma*, Pt. I, Vol. I, p. 407.

Lewin, *op. cit.*, p. 180.

Westermarck, *op. cit.*, p. 555.

Endle, *op. cit.*, p. 46.

Ibid., p. 95.

¹Gait, *Census of India*, 1891, Assam, Vol. I, p. 245

Ibid., p. 239.

Hodson, *Naga Tribes of Manipur*, p. 87.

²Russel, *Tribes and Castes of the Central Provinces of India*, IV, p. 407.

³Iyer, L. K. A., *Cochin Tribes and Castes*, II 139, 143, 192.

⁴Idem, *Cochin Tribes and Castes*, I, 61.

⁵Aiyar, T., *Census of India*, 1911, Vol. XXI (Mysore), Report, 100.

⁶*Ibid.*

⁷Thurston, *Castes and Tribes of South India*, III, 108.

⁸Rose, *Glossary of the Tribes and Castes of the Punjab and the North-Western Frontier Provinces*, III, 108.

- (33) In Beluchistan—three nights.¹
- (34) In the Grhya Sutras the period prescribed for abstinence is three nights,² but in other codes it is extended to six or twelve nights,³ or four or six months, or even a year.⁴
- (35) Among the Herero of Africa—the wedding night.⁵
- (36) Among the Bonyoro—two days.⁶
- (37) Among the Baganda—till the third night.⁷
- (38) Among the Banyankole of Africa—till the third night.⁸
- (39) In Usambara in Africa—five nights.⁹
- (40) In Egypt—one week.¹⁰
- (41) In Herzegovina and Montenegro—the bridegroom's mother decides when the period shall end.¹¹
- (42) Among the Serbs of Banat—the first night.¹²
- (43) Among the Roman Catholics of Upper Albania—the first three nights.¹³
- (44) In some parts of France—three, or two, or one night.¹⁴
- (45) In various parts of Germany and Switzerland—three nights.¹⁵
- (46) In Lower Brittany—a fortnight, or even longer.¹⁶
- (47) In some parts of Scotland—the first night.¹⁷
- (48) Among the ancient Estonians—the first night.¹⁸
- (49) Among the ancient Samoyeds and Ostyaks—a month.¹⁹

¹ Bray, *Census of India*, 1911, Vol. IV (Beluchistan), Report, 118.

² Grhya Sutras, I, 43, 384; II, 48.

³ Winternitz, *op. cit.*, p. 86

⁴ Westermarck, *op. cit.*, p. 549.

⁵ Roscoe, *Northern Bantu*, p. 40.

⁶ *Idem, Bagunda*, p. 91.

⁷ Roscoe, *Northern Bantu*, p. 120.

⁸ Farler, 'Usambara Country in East Africa' in *Proceedings of the Royal Geographical Society*, N.S., I, 92.

⁹ Lane, *Modern Egyptians*, p. 508.

¹⁰ Fraser, *Folk-Lore in the Old Testament*, I, 504.

¹¹ Westermarck, *op. cit.*, p. 557.

¹² *Ibid.*, p. 557. ¹³ *Ibid.*, p. 558. ¹⁴ *Ibid.*, p. 558. ¹⁵ *Ibid.*, p. 558.

¹⁶ Lord Hailes, *Annals of Scotland*, III, 15 nn*.

¹⁷ Westermarck, *op. cit.*, p. 559.

¹⁸ *Ibid.*, p. 559.

Besides these there are certain traits which are common to Chota Nagpur and Bengal, and to which we can attribute an Austric origin. They are, the making of 'Ulu' sounds, the worship of the tree-trunk, the treading on the curry-stone, the use of the winnowing fan, turmeric, mustard oil, vermillion and mango-twigs, the ceremonial cutting of water, the wearing of an iron wristlet, the drawing of 'Alpanā,' etc. Several of the above traits are also found elsewhere. Thus, the Ahom Chutiyas of Assam, the Kadupattans of South India, some peoples of Orissa and the North Western Province, and the Parsees use turmeric in connection with marriage ceremonies, for ritualistic purposes. Besides Bengal and Chota Nagpur we find the use of vermillion among some of the inhabitants of the Raj Mahal Hills in the United Provinces of India, and among some peoples of the Central Provinces, Behar, Orissa, North-Western Provinces, etc. "It has been suggested," says Westermarck, "or even taken for granted, that the custom prevalent in several aboriginal tribes of India, of the bridegroom marking the bride, or the bridegroom and the bride marking each other, with red lead is a later transformation of the custom of marking with blood; but although this may be the case, we can hardly be positive that it is so, considering how often, in India as well as elsewhere, the red colour is used in marriage rites in circumstances which do not allow us to presume that the use of it is the survival of an earlier practice of using human blood."¹ As regards the use of oil, we find that cocoanut oil is used by several other peoples, *viz.*, the Siamese, the inhabitants of Ponape in the Caroline Islands, the Nayars, the Nambuthiris and others, in the marriage rites, but the use of mustard oil is restricted to Orissa, Bengal and Chota Nagpur.

There is also another trait, such as, the use of betel, which though not found in Chota Nagpur, spread from Bihar² and Bengal

¹ Westermarck, *op. cit.*, p. 446-47.

² O'Malley, *Census of India, 1911, V (Bengal, Bihar and Orissa and Sikkim) Report,*

to the Pacific area. This trait may be considered as an Indo-Melanesian culture trait. Thus, in Malay Peninsula betel is presented as a pledge of marriage.¹ In Borneo it is customary to offer betel-leaves to the father of the bride at the time of making proposals of marriage.² In South Celebes the bridegroom is offered the betel-box of the bride.³ In Halmahera, too, the proposal of marriage is made by offering betels.⁴ In the Kei Island the couple exchange and eat betels.⁵ The Aru bride and the bridegroom take betel together.⁶ A similar practice is also found in New Guinea.⁷

We should now consider the reason behind the first preference of the mother's brother as the person

IV. Preferential position of the mother's brother; possibly a Dravidian trait in India. giving away the bride in Mymensingh. It is, we think, due to the matriarchal Dravidian influence. The authority of the mother's brother seems to be paramount among many

peoples, and it is found to extend from America to Africa. Thus, among the Amer-indians of North America the consent of the mother's brother is essential for the conclusion of a valid marriage.⁸ Among the Caribbean tribes of Columbia everything in connection with marriage is settled between the maternal uncles of both the parties.⁹ In the Mortlock Island also it is the mother's brother who negotiates marriages.¹⁰ In Northern Papua¹¹ and in the Bank's Island¹² again, everything in connection with the marriage of a boy is arranged by the mother's brother. Among the Menangkabau Malays all talks

¹ Skeat, W.W., *Malay Magic* (1900), p. 365.

² Crawley E., *The Malay Race*, Vol. I (London, 1927)

³ *Ibid.*

⁴ *Ibid.*

⁵ *Ibid.*

⁶ *Ibid.*

⁷ *Ibid.*

⁸ Morgan, L. H., *Ancient Society*, p. 499.

⁹ Nicholas, F. C., In *American Anthropologist*, N. S., III, 647 sq.

¹⁰ Briffault, *The Mothers* (Lond, 1927) I, 541.

¹¹ *Ibid.*

¹² Rivers, W. H., *The History of Melanesian Society*, 1, 39.

in connection with a proposed marriage are carried on between the mother's brothers of the bride and the bridegroom.¹ Among the Kurubas and Kallans of South India no marriage is valid without the consent of the mother's brother.² Among the Jogis,³ Mogers,⁴ and the Muka Doras⁵ of South India the mother's brother performs the whole ceremony of marriage. Among the Agariya and other castes of Bengal everything in connection with a boy's marriage is arranged by his mother's brother.⁶ Similar are the cases with the Ahirs, Bhars, Chamars, I'rasis, Khairwās, Korwas and the Byadha Nats of the North Western Provinces of India.⁷ About the father of a Brahmin girl of Beluchistan it is said thus—"In older days it would have been a scandal for him to put in an appearance at all ; he was expected to quit the house, leaving his wife's brother in possession to act as head of the family."⁸ In Tibet and in Sikkim the consent of the mother's brother is of primary importance for the conclusion of a valid marriage.⁹ Among the Basutos¹⁰ and the inhabitants of the Congo area¹¹ the mother's brother does everything in connection with a marriage, and the father of the bride keeps himself away. Similar is also the case with the Masai of Africa.¹²

Finally, it is possible to point out some rites and observances which are at first sight confined to Bengal alone, nay, even restricted to Mymensingh. This list may be made to include the ceremonies such as Tel-kāpar or Tel-halud or the

¹ Briffault, *op. cit.*, p. 541.

² Thurston, E., *Castes and Tribes of South India*, IV, 147.

³ *Ibid.*, p. 147.

⁴ *Idem*, *Ethnographic Notes of South India*, p. 80.

⁵ *Idem*, *Castes and Tribes of South India*, V, 108 sq.

⁶ Briffault, R., *op. cit.*, Vol. I, p. 541.

⁷ Crooke, *The Tribes and Castes of the North-Western Provinces and Oudh*, I, 3, 58; II, 7, 179; III, 8, 299, 331; IV, 65.

⁸ Bray, D., *Census of India*, IV (Beluchistan) Report, p. 112.

⁹ Das, S. C., *op. cit.*, p. 15 sq.

¹⁰ Briffault, *op. cit.*, p. 541.

¹¹ Weeks, J. H., *Among the Primitive Bakongo*, pp. 107, 142.

¹² Fraser, J. G., *Totemism and Exogamy*, II, 409.

ceremony of anointing the bride and the bridegroom with oil and turmeric, *Stree-āchār* or rites exclusively performed by ladies alone, and *Pāka-sparśa* or the bride serving the relations of the husband with rice, etc., noticed in Bengal alone; and such rites as *Sohāg-māgan*, *Subha-yātrā*, *Vāsi-vivāha*, and *Hasta-sparśa* confined to Mymensingh only. But analysed into their component traits most of them could be ascribed to one influence or the other.

The traits studied here have been with the motive of finding out stratigraphy of human marriage rites under the special conditions in Bengal. It has been noticed that our enquiry is something different from the investigations of the psychological school which rest satisfied with explanations of the motive behind the rites.

Our analysis is by no means exhaustive. Lack of data from other areas of the nature useful to us has been a great handicap. None the less, the mere study of distribution has brought to light some important facts. Taking thirty traits, or rather rites to be the whole gamut of the marriage ceremony in Mymensingh we found in it at least eight with definite Indo-European distribution and eight more to be definitely later Hindu Indian according to the orthodox *Sāstras*. The other traits or a little over fifty per cent. of the rites were due to earlier Indian, possibly pre-Vedic or pre-Aryan, elements. While in this the pre-Dravidian or Austric or Indo-Pacific traits could be clearly recognised in nine rites and eight material culture traits it is very hard to distinguish the Dravidian elements except in such cases where survivals of matriliney could be observed, taking for granted that matriliney and South Indian distribution would mark it as Dravidian.

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APPENDIX.

| | Tracts. | India and Burma. | Pacific. | North and Central Asia. | Europe. | Africa. | America. |
|-----|---|--|--|--|---|---|--------------------|
| I. | | | | | | | |
| (a) | Indo-European rites : Panighrahas or the Chipping of heads. | Vedic, Gonds, Kedu- pattans, South India in general, Bengal, the Punjab, Parsees, Sin- halas, Ahoms, Bhils, Burma. | New Guinea, Nuors, Borneo (Malacs). | ..... | Russia, Germany, Poland, Bulgaria, the Saxarians of Transylvania, England. | The Wahondai and the Abyssi- nians. | ..... |
| (b) | Eating together ... | Shan, Burmese, Miri, Magh, Santals, Iru- lans, Hill tribes of Central India, Chak- mas, Gonds, Karkas, Oasse, Hindus of Bengal, South India and Behar, Parsees. | Fiji, Mangals, New Heb- rides, Malay Archipelago. | ..... | Greece, Italy, Swit- zerland, Ger- many, Bulgaria, Sweden, Russia, Ugro-Fins. | Sakalava (Madagascar), Morocco, the Nam-Niams. | Navaho, Pawnee. |
| (c) | Lais-huma or the scattering of cere- als. | Vedic, Karans, South India, Gonds, Yanadi, George, Mundas, Ora- ons, the Punjab, Parsees, Berars, Baigs, Bhumijs, Bengal. | Siam, Guanches of Canary Is. | Siberia, China, Tibet, Syria, Palestine. | South Albania, Greece, Italy, Great Britain, Prussia, Southern Slavs, Ugro- Fins, France, Silesia, Bohemia, England. | Wahondai, Morocco. | ..... |
| (d) | Agni-parikramana or The circumambula- tion of fire. | Vedic, Caste Hindus of Bengal and South India, Maharis Bas- jars of Bihar. | ..... | ..... | Westphalia, North- Eastern Scotland. | Madagascar, Morocco. | ..... |

ETHNIC ANALYSIS OF CULTURE-TRAITS

77

| | | | | | | |
|---------------|---|--|----------------------------|---------------------------------|---------------------------------|---|
| I. (e) | Sitting upon a hide | Asharis, Vede, the Nam Brahmins and Tamil Brahmins of South India, Bengal (theo- retically). | ..... | Rome and Slavonic countries. | ..... | ..... |
| | (f) Placing a baby boy on the bride's lap | Vedic, Bengal ... | ..... | The Manchus | Sentari, Sweden and Estonia. | ..... |
| | (g) Purificatory bath | Caste Hindus of Bengal, Bihar, Orissa, South India and the Punjab, the Parsees. | South Celebes Sinai ... | Greece, Roumanian, Sweden. | Morocco, Rhodesia. | The Peruvians, Macawas and the Tlingit. |
| II. | Hindu Indian rites : | | | | | |
| (a) | Varqa or the we- poning of the guitar. | Bengal, South India ... | ..... | ..... | ..... | ..... |
| (b) | Pridge or the offering of water for ablu- tion. | Bengal, South India ... | ..... | ..... | ..... | ..... |
| (c) | Arhya or the offer- ing of oblations to the bigaon. | Bengal, South India ... | ..... | ..... | ..... | ..... |
| (d) | Nandimukham or the offering to the names. | Bengal, South India ... | ..... | China ... | ..... | ..... |

| | Traits. | India and Burma. | Pacific. | North and Central Asia. | Africa. | America. |
|------|---|--|---|-------------------------|---------|--------------------------------|
| (a) | Subhadṛṣṭī or the ceremonial exchange of glances. | Bengal, South India .. | ..... | ..... | ..... | ..... |
| (f) | Saptapadi-gāmans or the ceremony of seven steps. | Bengal, South India .. | ..... | ..... | ..... | ..... |
| (g) | Arundhatī-darśana ... | Bengal, South India .. | ..... | ..... | ..... | ..... |
| (h) | Horns or the offering of ghee (clarified butter) to the fire. | Bengal, South India, Mathurā, Banjaraś of Berar. | ..... | ..... | ..... | ..... |
| III. | Non-Vedic Material Traits. Possibly pre-Aryan : | | | | | |
| (a) | Turmeric ... | Ahorn, Chutiyyas of Assam, Bengal, Bihar, Orissa, South India, the Central Provinces, Chota Nagpur, the Parsees, North-Western Provinces. | Polynesia ... | ..... | ..... | ..... |
| (b) | Oil ... | Bengal, Bihar, Orissa, South India, Chota Nagpur. | Siam, Caroline Is., Polynesia in general. | ..... | ..... | Some of the Amerindian tribes. |
| (c) | Vermilion ... | Bengal, Orissa, Munda, etc. of Chota Nagpur, inhabitants of the Rajmahal Hills, the United Provinces, the Central Provinces, Bihar, Orissa, North Western Provinces. | ..... | ..... | ..... |  |

ETHNIC ANALYSIS OF CULTURE-TRAITS

| Trait. | India and Burma. | Pacific. | North and Central Asia. | Europ. | Africa. | America. |
|---|---|--|---|--|---|---------------------------|
| (6) Wearing of <u>shiva</u> wristlet. | Bengal, Chota Nagpur ... | ..... | ..... | ..... | ..... | ..... |
| (7) Wearing of <u>sankha</u> shell bracelet. | Bengal, Chota Nagpur, South Indis, the U.P. | Polynesia | ... | ..... | ..... | ..... |
| (8) Sri-Laksh or female predominance in cities. | Sri-Laksh, Bengal, Chota Nagpur ... | ..... | ..... | ..... | ..... | ..... |
| (9) Senior relationship of Grandfather and Granddaughter. | Bengal, Chota Nagpur, Melanesia, Australia. | ..... | ..... | ..... | ..... | ..... |
| V. Primitive Taboos : | | | | | | |
| (a) Boiling ... | Bengal ... | ... | ..... | Russia | ... | Some of the Amer-indians. |
| (b) Keeping awake | Caste Hindus of Bengal. the Khyongtha of Orissa. | Sumatra, Java, Borneo, Dutch New Guinea. | ..... | ..... | Massai ... | .... |
| (c) Abstinence before coitus. | Bengal, Kochin, Khyongtha, Kasargi, Ahom, Chaitiy, Angami Naga, Manipur Naga, Rajjhar, Ngar, Paryar, Pisharoti, Nambothiri, Ulladon, Agasa, Kurumba, Wasir and Banas of Beluchistan, Vedic. | The Samoyeds and the Ostyaks. | Herzegovina, Serbs, Upper Albania, France, Germany, Switzerland, Lower Brittany, Estonia, Scotland. | Tingit, the British Columbia, the Bayano, the Bayamkole and the Nootha, the Egyptians. | The Hesro, the Banyoro, the Begam, the Mexicans, the Indians of Brazil. | |

RACES OF INDIA

(*A Critique of Reports on Indian Anthropology*)

BY

BHUPENDRANATH DATTA, A.M. (BROWN), DR. PHIL. (HAMBURG)

It was the British ethnologists who were first to interest themselves in the case of Indian anthropology. Later on, the decennial Census Reports of the Indian Government began to issue an official statement on the anthropology of India. As such it became an authoritative version with the laymen.

Similarly the Census Report of 1931 of India Government submitted by Dr. J. H. Hutton is recently published. As the anthropological chapter deals with the racial origins of the people of India, the students of Indian anthropology will be interested in the contents. And in this paper an attempt is made to discuss the existing reports on Indian anthropology as far as possible.

Several schools of scientists are making investigations in the field of physical anthropology in India ; notably amongst them are : (1) The European continental school of the French, the German and Italian anthropologists, (2) The English-speaking school of the English and American anthropologists, and lastly, (3) The Indian school which is just in the making.

In this paper we will try to go over the reports of the investigations of each of these schools as far as possible to find the real situation regarding the anthropology of India.

Note. This paper was written mostly in the Anthropological Laboratory, Calcutta University.

It has been my experience to notice that the laymen in anthropology, when trying to find out anything about the anthropology of India, refer to the Census Reports of the India Government. And in this matter, the book of late Sir Herbert Risley entitled '*The People of India*' written on the basis of the investigation conducted by him in connection with the Census of 1901, proves to be very handy to them. As a result this book has got the credence of the outside world, so much so that even some eminent scientists of modern times have accepted some of Risley's conclusions regarding Indian anthropology and society without making further enquiry of his dicta.

This being so, it behoves us to begin our review with the Census Reports on India. As early as 1891 in the Census Report Mr. C. J. O'Donnell had said: "In fact the medium or mesaticephalic head is the most common in the plains of Bengal and Bihar, being the result of interbreeding between the round-headed Mongol and the long-headed Dravir, the Aryan having little to do with the physiognomy of this offspring except in upper India."¹

As regards the other parts of the Gangetic valley he says : "The Indian races and tribes in the valley of the Ganges from the Afghan frontier to the Bay of Bengal are so absolutely intermingled in blood, that it is impossible to discriminate between the skull characteristics of the castes or functional guilds which has grown up under later Brahminical usage."²

Here we first meet with the dictum that a cross between a round-headed subject with that of a long-headed one produces a third type which is intermediate in character. But having regard to the date when this dictum was formulated we may pass it over at present ; as regards the latter part of the opinion we will see later on how far it is true.

¹ C. J. O'Donnells, "Census of India," Vol. III. "The Lower Provinces of Bengal and their Feudatories," p. 25 f.

² *Ibid.*, p. 258.

Then comes the Census Report of 1901 by Risley.¹ As a result of the data collected by the report, Risley advanced the theories that there are different races living in India, and as a result of the crossing of these races various intermediate groups, *viz.*, Aryo-Dravidian, Mongolo-Dravidian, Scytho-Dravidian, Turko-Iranian races, inhabiting the different tracts of the country, have sprung up. As a consequence of this racial admixture, he said, the social status of a caste is determined by the amount of "Aryan" blood it has got within itself. In Risley's own words, "the social status of a caste stands in inverse ratio with its nasal index." In this work, he also enunciated the theory that out of a crossing between two diverse races, an intermediate race can spring up, and he cited the case of the mesocephaly of the peoples of Bengal as due to hybridization between the brachycephalic Mongolians and the dolichocephalic Dravidians.

After advancing these views Risley said that his conclusions have been accepted by the leading anthropologists of Europe. But in my perusal of the works of different eminent European anthropologists I have not come across the writings of these European anthropologists who have supported the nomenclatures of Risley's intermediate groups, *viz.*, Mongolo-Dravidian, Scytho-Dravidian, Aryo-Dravidian, etc. It is true that after the publication of Risley's report such men as Topinard, Kollmann and Emil Schmidt have said that they agreed with Risley that there were different races which went to make up the present Indian population. Further Topinard and Emil Schmidt have said that in their investigations they have found out that there are three different racial types in India. As regards the nomenclatures, it was Crooke, a colleague of Risley in the Indian Civil Service, who criticised them and said sooner these were done away with the better.²

With the publication of the Census Report by Risley containing the anthropological and social theories advanced by him in

¹ H. Risley, "People of India"; "Tribes and Castes of Bengal."

² Crookes' Preface to Risley's second edition of "The People of India."

this connection, curiosity was aroused in the mind of some and this set enquiring Indians to think critically about the condition of Indian anthropology.

Then in a subsequent Census it has been opined that as regards Bengal the Varendra Brahmins of North Bengal are of Mongolian origin, because their children show traces of "Mongolic spots" on their backs, and the Rarhi Brahmins of West Bengal are Negritos. Along with it a history of the Rarhi Brahmins was given which was not to be found either in the traditions or in the history of Bengal.

Finally comes the Census Report of India of 1931 of Dr. Hutton which has been released in 1933 for the perusal of the public. This report being the latest publication, caps all in race theories and in stories of different migrations. Of course this report being the latest of its kind, contradicts some of the assertions made in the previous reports. But the family likeness of all these can be discerned in the romantic stories of migrations and counter-migrations that are supposed to have passed from the east, the west and *vice versa* over the sub-continent of India, and the canons of biology have been made away with or dispensed with on the Indian soil to suit the theories of the writers. Further, from all the Census Reports one fact can be gleaned that, in the matter of skin-colour, its hereditary characteristics have been dispensed with while dealing with the migrations imported from other climes in India. Thus if a "Nordic" or a "Mediterranean" or an "Alpine" element did enter India from the outside, then what became of the skin-colour of its Indian representative? What Mendelian law did work in these representatives of a light-skinned race which came in contact with a darker autochthonous race in India? For example, some advanced the theory that the Dravidians are a light-skinned race which have migrated from outside.¹ But all the European anthropologists are in accord

¹ Keane, Preface to Iyer's "Cochin Tribes and Castes."

in the matter of the darkness of the skin-colour of the so-called Dravidian race. Hence it is incomprehensible to us why the Mendelian law as to colour has not worked in this case as it has in the case of the hybrids between the Whites and the Negroes of Jamaica and the Rehobother Bastards in South Africa ?¹ Again, if a crossing has taken place between a brachycephalic race with a dolichocephalic one, then it is beyond our knowledge of the science of anthropology to discover why an intermediate head-form should crop up in F_2 generation, as maintained in the previous Census Reports, instead of the process of splitting up taking place according to the Mendelian formulas as demonstrated by Davenport and Fischer, or the case being as in the matter of intermixture between the Polynesians and the Melanesians in the Micronesian Islands as reported by the anthropologists ?

Further the prefixes "Pre" and "Proto" are being used to suggest some new races whose somatic characteristics are not defined and which consequently lead us to anthropological obscurantism ! Again, in the Census Report of 1931 Dr. Hutton says : " Nevertheless Sewell has himself pointed out to this author the possibility of derivation of Proto-australoid type in India from a leptorrhine western type through a series of climatic modification — a transition series commencing in Kish skulls with a nose that is long and narrow passing through Al'Ubaid skulls in which these changes are marked to the maximum alteration found in the Veddahs... Similarly the series presents corresponding relations in the height of the orbit and the degree of prognathism as well as in the byzygomatic breadth... He has added in conversation the series could be prolonged unbroken from Kish westward to terminate in an Anglo-Saxon skull but would probably admit possibility of modification by hybridization as a possible alternative to modification by climate."

Here the opinion of Dr. Sewell, expressed in a private correspondence, is quoted. In this correspondence the

¹ G. C. and C. B. Davenport, " Heredity of Skin-colour in Negro-White Crosses," Amer. Nat. XLIII, 193-211; also E. Fischer, " Die Rehobother Bastards." Jena, 1918.

opinion is expressed that the Proto-australoid in India is derived from a leptorrhine-western type through a series of climatic modifications. It seems in this theory only environment has been taken into account ; the orthodox view of heredity as the other factor is ignored. Hence, we are at a loss to understand the new biological laws propounded in it ! How can a leptorrhine-western type (Nordic?) transform itself into platyrhinic "Proto-australoid" type through a series of climatic modifications when the climate of each locality mentioned in this connection is not much different from each other. Certainly the climate of Kish is not much different from that of Al'Ubaid both of which are situated in the Mesopotamian valley. Certainly the climate of those ancient towns were not different from each other in ancient times so as to evolve new biotypes within their own environments. Again, a biotype is not the product of the *milieu* of a town or of a particular locality ; man moves about and wanders far away ; his milieu-condition is of wider range ; so, it will be necessary to see new biotypes evolve in every locality where some new skull or racial element has been discovered. Again, the climate of the Mesopotamian valley is not much different from that of the Indus valley. Then how is it possible to maintain the theory ascribed to Dr. Sewell that the Mohenjo-daro skulls are one of the halting points of this transition series from the Kish skulls. But Sir John Marshall in his report on Mohenjo-daro and Indus Valley civilisation says, "Indus culture was contemporary with the early culture of Sumer and with the later prediluvian culture" of Elam and Mesopotamia...Lively intercourse was going on between those countries at the close of the fourth millennium B.C. when Mohenjo-daro and Harappa were in the height of their prosperity."¹

Hence under these conditions is it necessary to see fresh new biotypes evolve at these localities ? Again Drs. Sewell and Guha, who reported on the Mohenjo-daro crania, have aid :

¹ Sir J. Marshall, "Mohenjo-daro and Indus Valley Civilization," p. 104.

" Certain of the Kish skulls agree in certain characteristics with those from Mohenjodaro that we attribute to Type I (Proto-australoid race)." ¹ And as regards Type II (Mediterranean race) they further say " it agrees very well with " skull No. 4 in Buxton's account of Kish remains.²

Thus it is clear from the Mohenjodaro report that instead of the evolution of new types similarity and identity have been detected in some of the skulls of both the places.

Further, if the Proto-australoid type of India is the transformed shape of " leptorrhine-western type through a series of climatic modification" then will it not be reasonable to see in the Veddoid type of Ceylon and South India the transformed form of the dolichocephalic-leptorrhine type of North-western India which is alleged to be the descendants of the Western Nordics or Proto-nordics or Caspian type of Central Asia. Is not the climatic milieu of the North-western Himalayan range, different from the semi-tropical jungle environment of South India and Ceylon ? If the argument holds good in one case, it will hold good in the other case also. If this theory be the biological fact, then we come back to the theory of the Sarasins in a reverse way.

But Dr. Sewell is supposed to have left a loop-hole when he is reported to have said, " We would probably admit possibility of modification by hybridization as a possible alternative to modification by climate." Regarding this theory reported by Dr. Hutton, he himself says, " The safest hypothesis at present therefore appears to be that the Proto-australoid type in India is derived from an early migration from the west...that its special features...have been finally determined and permanently characterized in India itself. It is represented in its purest form in the Veddas, Malvans, Irulas and similar tribes in the hunting stages in Ceylon and Southern India." It seems, without committing himself to the case of leptorrhiny of Sewell, Dr. Hutton has accepted the former's theory that the Proto-australoids have been

¹ and ² *Vide* Drs. Sewell and Guha's report in "Marshall's Mahenjo-daro, etc.,"
Vol. II, 688-43.

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derived from a western type whose characters have been determined in India. But the Sarasin brothers, Martin, Haddon and others report the existence of tribes in Malay and in Celebes who show affinities with the Veddahs on one hand and the Australians on the other, thus pointing out that the direction of the migration may have started from the East. Regarding this Buxton says, "There seems to be an increasing evidence that this type is widely scattered over South-Eastern Asia."¹ And he further² says that this type is not to be found at Kish as he says, "In the few skulls we possess at Kish there is no evidence of it."²

But the question that arises in the mind of the student of anthropology is whether Dr. Hutton's explanation is tenable.

Firstly, we have not yet heard from the anthropologists of other schools about a Proto-australoid race. We have rather heard that the natives of Australia show similar characteristics in their head formation with the Neanderthal skull of Northern Europe. Hence a common origin is suggested, and both are included within "*Homo primigiennisis*" type. So great an authority as Kollmann has said that the Neanderthal-Spy skulls and the modern Australians belong to the same group coming within the range of variation.³ As we have not heard anything about the Pre-neanderthals or Proto-neanderthals, we have not yet heard about the Proto-australoids. Apart from members of the German and French schools, Dr. Gates says, "The Australian black fellow appears to be an early palaeolithic survival, resembling Mousterian man."⁴ Again Davenport opines that the Australian natives are Neanderthaloids and not different from "the Dravidas."⁵ Further, long ago, Turner, Callamand and Emil Schmidt expressed the views that the Dravidas had nothing to do with the Australians.

¹ and ² Buxton and Rice, "Report of the Human Remains Found at Kish."

—J. R. A. Inst. of Great Britain and Ireland, Vol. LXI, 1933, p. 91.

³ Kollman, "Die Neanderthal Spy Gruppe"—Blatt des Deutschen Gesellschaft Basel 1906.

⁴ Ruggles Gates, "Heredity in Man," 1929, p. 330.

⁵ Ibid., p. 300.

⁶ Buxton's "Proto-Indians" are Haddon's Pre-Dravidian group which the latter classes with the Australians—*vide* Buxton and Rice, p. 91.

But here we are confronted with the Proto-australoids of Drs. Sewell and Hutton who are supposed to have been derived from immigrants from the west, who according to the former savant are leptocephines. Are we to assume by this hypothesis that a Proto-neanderthaloid-leptocephine race has migrated somewhere from the west stretching from Arabia, Mesopotamia to the vast expanse of the globe ending at the Atlantic Ocean and India ? None of the anthropologists has given us such information as yet ! Neither is it maintained that any of the *Homo primigeniensis* series of Neanderthal, Spy, Mousterian, Krapina and Gibraltar is the progenitor of the autochthonous race of India. Further, it is well known that the Neanderthal type was not leptocephine. Again, if it be suggested that the *Homo Solensis* type of skull recently discovered might have been the progenitor of the Indian "Proto-australoids" then there is no basis for such a hypothesis as yet for, as it is claimed by some, this type is the direct ancestor of the Australian aborigines.¹

Again, if by the expression "Proto-australoid" is meant the form the race in question had, before it evolved the present characteristics, then would it be wrong to assume that as the present-day Australians are 'Neanderthaloids' and appear to be an early palaeolithic survival, and they are a species of *Homo primigeniensis*, the race preceding the Australian-neanderthaloid species must be of anterior date to that of *Homo primigeniensis*.

The fact is, the skull of the Australian aborigines is similar to the skull of the Palaeolithic Neanderthal man of North Europe, but it is not yet ascertained in which way the migration has taken place. Regarding the stretch of the globe on which the palaeolithic skulls have been discovered, late Prof. von Luschan has said, "Den palaeolithischen Menschen können wir allerdings schon heute mir einiger Sicherheit von Gibraltar über Frankreich West deutschland, Kroatien, bis zu den modernen dunklen Indern, zu den Senoi der malaischen Halbinsel, zu den Toala von Celebes

¹ Vide Hutton, Census Report.

und zu den Australien verfolgen und hier an eine wirkliche und in sich geschlossener Einheit denken”¹ (The palaeolithic men, of all things now-a-days, with some surety, can be traced from Gibraltar, France, Western Germany, Croatia to the modern dark Indians, to the Senoi of Malay Peninsula, the Toalas of Celebes and the Australians.) This is von Luschan’s famous hypothesis of “From Gibraltar to Australia line,² that is, according to him the line of migration of palaeolithic Neanderthaloid man. But nobody is sure which is the starting point of the migration of this racial type. And the migration from the west cannot be ascertained. But as regards the hypothesis of affinities between the dark Indians, Veddahs and the Australians, it must be said Turner, Callamand, Emil Schmidt and Virchow deny the existence of such connection.

Leaving the questions of the Neanderthaloid-australoid affinities of India at present, we are confronted with the hypothesis of the presence of the Melanesian elements in India and Burma as thus : “ Melanesian elements are apparent in India and Burma though limited in distribution and doubtful in origin or there might have been some migration from east to west.....As a physical type the Melanesian occurs very markedly in the hilly tracts that divide Assam from Burma and in the Nicobars. ...It seems the Melanesian represents a stabilized type derived from mixed Negrito and Proto-australoid elements.”

Here an assertion is made that in the hill tracts that lie beyond the north-eastern frontier of India proper and in the Nicobar Islands, traces of Melanesian type are to be found. It is the first time that such an assertion has been made regarding the anthropology of this quarter. Risley has not mentioned it ; a more recent anthropologist, Dixon, says regarding the anthropology of north-eastern India : “ In all the platyrhine, dolichocephalic types are in the majority, the leptorrhine factors being, except among the Rengma Nagas, present merely as a trace. In most instances

¹ F. von Luschan, “ Hamitischen typen,” Hamburg, 1912.

² F. von Luschan, “ Early Inhabitants of W. Asia,” Huxley Memorial Lectures, J.R.A., Vol. XLI, 1911.

the Palae-Alpine is the element of second importance, amounting in some cases to as much as 40 p. c. In stature all are below medium, the figures ranging from an average of 157 cm. for the Khasi to 164 cm. or over among the Angami Nagas. The hair is straight or wavy, sometimes curly ; the eyes in some cases show the Mongoloid fold.”¹ He says further, “The brachycephalic group includes the Tipra, Magh, Chakma, the Mikir, the Ao and the Sema Nagas and the Ahom of the hill country and Brahmaputra valley. In this group it is the Palae-Alpine type which is present in greatest strength, rising in the case of the Chakma to over 65 p. c.”²

Thus, dolichocephalic, tall, woolly-haired peoples of the South Sea Islands known as Papuans or Melanesians do not come in question here. Dixon does not mention the presence of woolly hair in this region ; but Dr. Hutton contradicts it. He says in an article in “Man in India”³ : “In a recent important work on the peoples of Asia Dudley Buxton has asserted that there seems to be no evidence of any Negrito blood on the Eastern Frontier of India (quoted in a review in ‘Man in India,’ Vol. VI, p. 218). It is the purpose of this short paper to indicate what evidence there actually may be for the existence in the past of a substratum of Negrito population in Assam. The Negrito race is Ulotrichous...Now in Naga Hills specimens of more or less ulotrichous hair are to be seen with some frequency in certain areas.” Thus Dr. Hutton himself speaks of a Negrito substratum in the region beyond the north-eastern frontier of India, and certainly the Melanesian type is different from that of the Negrito one. As regards the Melanesians Deniker says, “There are two subraces ; Papuan of New Guinea, with a long face and bent nose, and Melanesian proper with a more broad face and straight or concave nose...They are generally more dolichocephal and bigger than

¹ R. B. Dixon, “The Racial History of Man,” New York and London, 1923, p. 261.

² *Ibid.*, p. 261.

³ J. H. Hutton, “A Negrito Substratum in the Population of Assam.” “Man in India,” Vol. VII, No. 4, Oct.-Dec., 1927.

the Papuans."¹ Thus the presence of a Melanesian or Papuan type in this region cannot be raised at all, as no one has 'demonstrated the presence of such a type in this hill tract.' But Hutton speaks of the "specimens of more or less ulotrichous hair are to be seen with some frequency in certain areas"; also he speaks of frizzly hair being a cross between ulotrichous and letrichrous hair. Further in the same article in 'Man in India' he gives the photograph of a frizzly-haired man said to be a Naga. Rudolf Martin classes frizzly hair as a form of ulotrichous hair and he classes the Negroids of Asia, Africa and South Sea as well as the Negroes, Negritos and Melanesians as the ulotrichi people.²

Thus accepting Hutton's suggestion that ulotrichous persons are to be found in the Hill tracts, yet it cannot be proved that they are Melanesians; rather in his article in 'Man in India' he suggests the presence of a Negrito substratum in the past; but in the Census Report he speaks of a Melanesian element being present in the same region and in the Nicobars. In this wise he contradicts himself.

On the other hand, Haddon speaks of an element (dolichocephalic mesorrhine), which he terms Nesiot, to be present in the same Hill tracts. He says, "It may be tentatively suggested that there is an ancient dolichocephalic platyrhine type (Pre-dravidian) which is strong among the Naga, Khasi, Kuki, Manipuri, Mikir, Kachari, etc., but is weaker among the Naga tribes.³ There is reason to believe that a Nesiot element is strong among the Naga and other hill tribes." Thus we see the reports of various investigators are contradictory to each other!

Then speaking about Dr. Handy's suggestion of two courses of prehistoric migration from West to East, Dr. Hutton says: "It seems reasonable to postulate an alternative route across India and the Bay of Bengal for Elamites and dwellers in

¹ J. Deniker, "Les Races et les Peuples de la Terre," 1926, pp. 611-15.

² R. Martin, "Lehrbuch der Anthropologie," Bd. I, Jena, 1928.

³ Haddon, "Races of Man." Cambridge, 1929.

Mesopotamia of the Mediterranean Race having reached the Indian Archipelago. For overlaid as it is with Pareocean elements and confused with submerged Negroid races, the basic type of the Nēsiōt race is generally regarded as Mediterranean in origin and as having derived even its prehistoric cultures from the mainland of Asia. So, it seems just possible that the leptorrhine features and fair skins so often seen among the Namasudras of Bengal which are so much at variance with their low social position may be due to settlements left behind in the course of this migration.” Here we meet with a very big hypothesis and a very big adventure. The anthropological writer of the Census Reports imports the Nēsiōts of Haddon who according to him are the Indonesians, from the west across India to the Eastern Archipelago. Here the question arises who are these Nēsiōts ? Are they the same as the old Indonesians of which Deniker speaks as “diverse éléments de Celebes et Malacca etc.”? ¹ If the Indonesians be the Nēsiōt, then they resemble the Malay, as Deniker further adds, “d'autre part, les Indonésiens se rapprochent singulièrement de Malais.” ²

After all, the importation of the Nēsiōt-Mediterranean from the west is a big adventure, and to see in the leptorrhine and fair-skinned Namasudras a remnant of the dolichocephalic-mesorrhine Nēsiōt of Haddon is beyond the mark. Rather, is it not possible to suggest that the leptorrhiny and fair skin of some of these men of lower strata of society may be due to miscegenation with the members of higher castes ?

Risley in his “Tribes and Castes of Bengal” has given the cephalic and nasal indices of eighty Chandals of Bengal. They are the same as the Namasudras of Bengal. The former name which carries some bad connotation with it from very ancient times is very much resented by the members of the caste in question. Now-a-days they are known by their new appellation “Namasudra.” Now in my article entitled “Das

¹ Deniker, p. 632.

² Ibid., p. 662.

Indische Kasten System,"¹ I have given a biometrical analysis of the said data of Risley, and by making a correlation of cephalic and nasal indices I have found out the following result:

Chandal (Namasudra).

| | | | |
|-----------------------|-----------|--------------------------|-----------|
| Dolichoid Leptorrhine | ...14·92% | Brachycephal Leptorrhine | ...11·84% |
| " Mesorrhine | ...50·74% | " Mesorrhine | ...10·44% |
| " Chamoerhine... | 8·95% | " Chamoerhine... | 2·85% |

In this biometrical analysis we see the dolichoid and brachycephal leptorrhines are strongly represented, and referring to the same article in question it would be seen that the castes higher than the Namasudras, *viz.*, the Brahmans, have the same elements with 42%, the Kayasthas with 47%, the Sadgop with 27%, the Goala with 24%, the Kaivarta with 13%. Again, the Brahmins have dolichoid-mesorrhine element in them with 40%, the Kayastha with 38%, the Sadgop with 50%, the Goala with 58%, the Kaibarta with 54%. Thus the leptorrhine and the fair skin of some of the Namasudras may not be due to the belated Nēsiōts; rather they have this element in common with the other castes of Bengal. Again, if the dolichoid-(dolichocephal and mesocephal) mesorrhine is the characteristic of the Nēsiōt Mediterraneans of Haddon, then a reference to the abovementioned article will show that it is the dominant element with most of the castes from the Punjab down to Bengal, and a further reference to Risley's lists of averages of the South Indian castes will bear the same testimony that dolichoid-mesorrhine is the dominant type in India. Hence any talk of the presence of leptorrhines amongst the Namasudras as due to the Nēsiōts who are left behind is not reasonable. The Namasudras cannot be singled out to prove a hypothesis.

On the other hand Dudley Buxton,² discussing the anthropology of South India has drawn a line of demarcation between

¹ *Anthropos*, Band XXII, 1927.

² "Report on the Human Remains found at Kish" in J.R.A.I., Vol. LXI, 1931.

the long-headed broad-nosed Proto-Indian, and the long-headed narrow-nosed Chersiots. In the way of explanation he says, "Examining the figures in South India it would seem if the type were mixed, namely a very broad-nosed type and a narrower-nosed type, and the division of Risley's original Dravidians into Dravidians and Pre-dravidians is now generally recognised. "But these terms are unsatisfactory." For the narrower-nosed peoples I suggest the term Chersiots, mainlanders." Thus in India he divides "three types of long heads : (1) broad-nosed Proto-Indians, (2) narrow-nosed Chersists and (3) the tall narrow-nosed peoples whom Haddon has called Indo-Afghans. All three belong to the dolichocephalic group of curly-haired peoples."¹ As regards his Chersiots he further says that the Dravidians to whom Dr. Hall refers, in suggesting a comparison between the Sumerian types and those of India, are the Chersiots. The word "Chersiot" has been used in contrast to the word "Nēsiōt." The physical characteristics of these Chersiots are given by Buxton as "long-headed peoples, usually of small statures and narrower noses. These people extend from the Mediterranean to India and indeed beyond these limits. There seems to me an essential similarity between the Chersiots and the people of Mesopotamia. There is a very marked difference in skin colour, possibly due to environmental conditions but as yet not fully explained."²

It is clear that Buxton's Chersiots are the Dolichoid-mesorrhine group mentioned above. They may be the so-called Dravidians. When the long-headed broad-nosed peoples are called as "Proto-Indians" and are identified with Haddon's Pre-Dravidians, and the tall narrow-nosed peoples as the Indo-Afghans, then the remainder must be the so-called 'Dravidians.' Indeed, as mentioned above, the Dravidians of Hall are the Chersiots of Buxton. Regarding these Dravidians Haddon says: "The Dravidians are usually confounded with the pre-Dravidians. After the elimination of the pre-Dravidians a racial type emerges with finer features than those of

¹ and ² "Report on the Human Remains found in Kish," J.R.A.I., LXI, 1931, pp. 90-91.

the aborigines, and the conclusion seems evident that this was due to an immigrant people who reached India before 2000 B.C."¹ Hence the Chersiots of Buxton who are differentiated from the broad-nosed type cannot but be the "Dravidians" of Haddon with finer features than those of the aborigines. But as these Chersiots of Buxton extend from the Mediterranean to India, will it be taken for granted that they have migrated to India from the west,² while the Nesiot of Haddon are located in the Eastern archipelago side and he finds traces of them amongst the Nagas and other hill tribes. On the other hand, Hutton finds traces of these Nesiot, who according to him are leptorrhine in feature and with fair skins, amongst the low class Namasudras, and he makes them migrate from Mesopotamia.

It seems, the Nesiot and the Chersiots are meant to be the same people who have some affinity with the Mediterraneans of Mesopotamia. Hence it would lead us to believe that the fight is around the nomenclature. But it is not exactly the thing. Haddon's Nesiots are "dolichocephalic-mesorrhines"³ while Buxton's Chersiots are "dolichocephalic and narrow-nosed." Here is an ambiguity. The nose, narrower in comparsion with chamaerhiny may be mesorrhine or leptorrhine. Is it used in a comparative sense with that of the broad-nosed people? It seems to be so. But there is further differentiation. The Chersiots are short-statured,⁴ while the Dravidians of Haddon are medium-statured. Here is a dissimilarity in some racial characteristics.

So, we are at a loss to know whether the leptorrhine fair-skinned element amongst the Namasudras of Bengal as mentioned by Hutton are to fall within the Nesiot or the Chersiot

¹ Haddon, "Races of Man," pp. 107-111.

² Regarding the Sumerian-Dravidians Hall says, "and to this Dravidian ethnic type of India the ancient Sumerian bears most resemblance. And it is by no means improbable that the Sumerians were an Indian race that passed certainly by land perhaps also by sea through to Persia to the valley of the two Rivers." Thus Hall made them migrate from India.—H. R. Hall, "The Ancient History of the Near East," pp. 172-79.

³ *Ibid.*

⁴ Buxton, J. R. A. I., Vol. LXXI, p. 91.

group. To us it seems that this element, as mentioned by Hutton, cannot be singled out as confined amongst the Namasudras, but apart from the fight around a nomenclature we have seen that a dolichoid-leptorrhine element as well as a dolichoidmesorrhine element does exist in India, it exists amongst the Namasudras along with the other castes of the province of Bengal.

Again, the Census Report says, "the vague suggestion of Mongoloid which is so often given by the appearance of hillmen of Chota Nagpur, of Bastar State in C. P. and of Madras Agency tract, may be due to a strain of Pareocean blood which has come in by sea from east." Here a vague suggestion of Mongoloid appearance is spoken. What is this Mongoloid appearance is not mentioned. Thurston does not mention it. All are busy in finding the Negroid in these regions,¹ but so far no one has mentioned about the Mongolian fold or the Epicanthus in the eyes or other Mongolian characteristics of the peoples of these regions. Haddon, while speaking of the Kolarians, says, there is something in the racial appearance of many Kolarians which enable the observer to pick out the typical inhabitant...*infiltration* of Mongolian traits."

Dixon,² describing the anthropology of Asia says, "No authentic find of Palaeolithic man has up to the present been made anywhere in the continent and data even of Neolithic age are all but lacking. Yet the outlines of human distribution at a period roughly synchronous with the Neolithic period in Europe, I think, can be dimly seen. At this time southern and eastern borderlands from India around to Kamatschatscka seem to have been occupied in the main by a dolichocephalic, dark-skinned, Negroid population which was a blend in varying proportions of the Proto-Australoid and Proto-Negroid types.....whether the Proto-Australoid type definitely preceded the Proto-Negroid throughout this whole region we have as yet no means of knowing. At any rate, the Proto-Negroid type later came to dominate in the south

¹ Haddon.

² R. B. Dixon, "The Racial History of Man," 1928. p. 243.

at least." Then he says, "Although this blend of Proto-Australoid and Proto-Negroid types formed everywhere the fundamental basis of the population of the borderlands, two other types were also present; probably the earliest of these was the Caspian. The others of these early types present in the borderlands was the Palae-Alpine. At the present day this type exhibits two forms strikingly different in outward appearance, yet closely similar in skeletal characteristics : (1) Mongoloid and (2) Negrito. Both groups are round-headed, high-skulled, broad-nosed, and these must be classed as belonging to the Palae-Alpine type. For the time being, I shall simply beg the question and refer to the short, Negroid, brachycephalic peoples as the Negrito branch of the Palae-Alpine type...that they were present already in Neolithic times in Further India, and perhaps in India itself, seem very probable."¹ Regarding India he says, the "Proto-australoids" survives in the South India, the Proto-negroid is confined to Central India, the "Caspian" to Northern India and the "Palae-Alpine" type plays a considerable part amongst the Tamils of South India.²

Here Dixon introduces new nomenclatures and divides the races according to these new names. The upshot of his theories is that the Proto-australoid element, a Proto-negroid element and a Palae-alpine element are to be found amongst the Dravidian-speaking peoples of South India. In order to understand his nomenclatures we will have to refer to the definitions of his nomenclatures. While speaking about the Neanderthal race of Europe he says, "It is characterised among the features, by a long low skull and a broad nose, a combination of features which marks these very early men as examples of our Proto-Australoid type." Thus his Neanderthals are Proto-australoid, and the palaeolithic Neanderthal affinities of the Proto-Australoid are stated by him to be found in South India.³ Regarding the Proto-negroid he says "the statement that among a given people the Proto-Negroid type is strongly represented does not imply that

¹ Dixon, p. 244.

² Dixon, pp. 249-50.

³ Dixon, pp. 28-30.

they have or had a black skin or woolly hair "¹" and he cites the prehistoric Grimaldi race of southern France as belonging to the Proto-negroid race. His Palae-alpines compose the Mongoloid and the Negritos. We are not sure whether these two groups can be classed together in the same group, because both the groups are round-headed, high-skulled and broad-nosed, but other features, which are parts of racial characteristics in the colour of the skin and the form of hair, are not common.

It is evident that the vague Mongolian appearance spoken of by Hutton and which we are seeking to discover, is not to be found with the races of Dixon. If this comes through the Palae-alpines, then according to Dixon it is confined to the Tamils only.² Hence we stand in the same place from where we started to find out this vague Mongolian appearance. But Hutton suggests that the strain of Pareocean blood may account for it.

Now what is a Pareocean race ? Again Haddon comes here to the rescue. The Pareocean is the southern Mongoloid race. Keane speaks of the Malays as southern Mongolians.³ Then does this vague Mongolian appearance come from some sort of Mongolian racial affinity? If that be so, then we are again driven back to Dixon. But he speaks of Palae-alpine type being found among the "Tamils of South India" only.⁴ So, we are in a labyrinth, and the Census reporter has not shown us the way to extricate ourselves out of it.

Dixon says, "The Palae-Alpine type is strongest in Further India...It plays a considerable part among the modern population of Turkestan and perhaps in Tibet, as well as in the Tamils of Southern India and in parts of Korea and Japan"⁵ Here it seems he mixes the Eurasian Alpine (*Homo Alpinus* of Lapouge) and the so-called East Asiatic brachycephalic Mongoloids in one lump. Perhaps at the back of the mind of the Census reporter these brachycephalic Mongoloids are lurking

¹ Dixon, pp. 22-23.

² Haddon, p. 32.

³ Keane, "Man Past and Present."

⁴ Dixon, pp. 249-50.

⁵ Dixon, pp. 249-50.

whose influence he sees in this "vague Mongolian appearance" but in whom he sees the Pareocean affinity.

In the same part of India the Palae-alpines of Dixon are supposed to be found. So it is not impossible to infer that the Pareoeans have Palae-alpine affinity. But the next question crops up at once—which sort of Palae-alpine affinity has the Pareoeans? According to Dixon, "At present this type (Palae-alpines) exhibits two forms—(1) Mongoloid, (2) Negrito."¹ Again, he "refers to the short, Negroid, brachycephalic peoples as the Negrito branch of the Palae-Alpine branch."² Naturally we are driven to ask whether Hutton means by these Negritos having a vague Mongolian appearance whom he finds living in the central and southern parts of India. But no one has ever spoken of the Negritos having Mongolian appearance; also no one as yet has spoken of such a large portion of India being peopled by the Negrito race! So, we are still wandering in the labyrinth.

Some have mentioned about the similarity between the "Dravidian eyes" and that of the Mongolian ones, though no one has spoken of any Mongolian fold of the Dravidian eyes. If that be so, then the anthropologists of modern times who have investigated the South Indians would have reported about it. But Emil Schmidt³ and others are silent about it. So the mysticism about the vague Mongolian appearance remains in its esoteric plane as before.

It is true that one of the skulls discovered at Mohenjodaro has been reported to be identical with a Naga skull.⁴ But the stray example of a skull discovered in the debris of a buried town cannot prove the existence of an extensive race over India. Then the Census Report goes on saying that the physical type

¹ *Datta,*

² *Ibid.*

³ Emil Schmidt, (1) "Die Anthropologie Indiens," *Globus*, Bd. 61, 1892.

(2) "Die Rassenwanderung schaft der voelker stammes Sudindiens und Ceylons," Berlin, 1896.

⁴ Sir John Marshall, "Mohenjodaro and the Indus Valley Civilization."

of Muslim cultivators in Eastern Bengal is strongly suggestive of a mixed Mongolian and Proto-australoid strains. The data on which this hypothesis is based are not yet published, hence we are in the dark regarding the true condition, and the way in which hybridism betrays itself in this admixture. But we might draw the attention of the Census reporter that the word Eastern Bengal is a vague one. Certainly, individual Mahomedan cultivators hailing from the districts contiguous to the hills lying on the eastern border of Bengal may show some trace of affinity with the hillmen, but to describe the Mahomedan cultivators of Eastern Bengal as showing "mixed Mongolian and Proto-Australoid strains" on one hand, and to describe the fellow-cultivators of the same region as showing trace of settlement of the members of the Mediterranean race in their migration across India and Bay of Bengal to the Indian Archipelago on the other, is very confusing.

The population statistics of the same census report will show that Namasudras, formerly known as Chandals, are mostly cultivators, and most of this cultivating caste live in East Bengal. Regarding the connection between the Mahomedan cultivators with their Hindu fellow-cultivators, Gait in the Bengal Report of Indian Census, 1901, says, "But the most convincing testimony is that afforded by the exact measurements carried out by Mr. Risley. The average cephalic index of 185 Mahomedans of East Bengal is almost identical with that of 67 Chandals (Namasudras). The nasal index of the Mahomedans was greater than that of the Chandal but not very different from that of the Chandal's half-brothers, the Pods, and in any case a broad nose is characteristic of the Dravidian rather than of the Aryan and Semitic types."¹ Also Gait says, "It seems to me that there can be no doubt as to the local origin of most of the Mahomedans of East and North Bengal. In other parts of the province also the general opinion is that the lower classes of Mahomedans are recruited from the local converts...the

¹ Gait, "Bengal Report," Indian Census, 1901, Vol. VI, pp. 188-89.

affinities of the Mahomedans of East Bengal seem to be with the Pods and Chandals and those of North Bengal with the Rajbansis and Koches."¹

Thus the Indian Census reporter of 1901 demonstrates the somatic affinities of the Mahomedans of East Bengal with the Namasudras (Chandals) and Pods of the same region, and the reporter of the same Census on Bengal acknowledges the affinities of the Mahomedans with the local Hindus. This being the case, we are at a loss to understand how the reporter of the Census in question can find out different strains amongst the peoples living in the same locality though of different religion. Any way, we must wait for the publication of the data on somatic measurements in order to understand the true situation.

Then again, coming down to South India, the reporter says, "Buxton suggests that Pareocean element extends to Southern India." Here Haddon again comes to the rescue. The Pareoeans are a Southern Mongolian race. Hutton has already suggested the presence of a strain of this blood in Southern India in connection with the "vague Mongolian appearance." If it be Buxton's suggestion, then he has also spoken of long-headed broad-nosed "Proto-Indians" and long-headed narrower-nosed "Chersiots," and the tall long-headed narrow-nosed people called as "Indo-Afghans." Again, in the same region Dixon speaks of the presence of the Palae-alpine type amongst the Tamils of South India. Then where do the "Pareoeans" fit in? Naturally, we are driven back to ask the same question again, whether the Pareoeans have affinities with the Palae-alpines and with which branch? We are again driven back to the old blind alley!

Then the Census Report speaks of a non-Armenoid Alpine population of a brachycephalic leptorrhine type appearing in Bengal and more markedly in West India. Here a non-Armenoid Alpine people are mentioned. It is a new differentiation that is being made by the English school of

¹ Gait, "Bengal Report," Indian Census, 1901 Vol. VI, p. 168-69.

anthropology. Since the discovery of Ujfalvy's belated Savoyards in the Galtchas of the Pamirs, the theory of *Homo Alpinus* extending from the Pamir plateau to Western Europe has been started by him, and has been accepted by all. This type is said to be found in the "Disidis type" in Switzerland. On the Swiss Alps in Graubünden the Alpine type is supposed to be the purest in form. Since that time, it has been the custom with the anthropologists to call the brachycephalic-leptorrhine stocky-built middle-statured race as the "Alpine race" and Sergi has called it the Eur-asiatic race.¹ But von Luschan² who was the first to clear the anthropology of Western Asia or Near East, found that the Armenians contained this type in a preponderating percentage amongst themselves hence he termed the Asiatic affinities of this broad-skulled narrow-nosed brunette type as the "Armenoid race;" as the Alps mountain is not situated in Asia the name cannot be used to denote the Asiatic part of the same race. According to him it is a misnomer to call this type of Asia as Alpine, hence the word "Armenoid" corresponding to the word Alpine has been coined by him. Since then the nomenclature "Armenoid" is being used, and no one previously has made any differentiation between the Alpines and the Armenoids. But it has become the vogue with some present-day English-speaking anthropologists to make a differentiation within the same Eur-Asiatic race by making a distinction between an 'Alpine' and an 'Armenoid' type. This differentiation has found an echo in Marshall's "*Mahen-jo-daro and the Indus Civilization*" and also in the Census Report in question where it is said: "this type is probably a specialized off-shoot from the standard Alpine stock." About the presence of this brachycephalic leptorrhins in India we will speak later on.

Then the Census Report says that "the Mediterranean race appears to be one that has contributed most to the physical composition of the peoples of India and perhaps also to its culture."

¹ Sergi, "The Mediterranean Race."

² Fedix von Luschan, "Huxley Memorial Lectures," J.R.A.I., 1911.

Anthropologists are now-a-days talking about the predominance of the Mediterranean race in India. But it is very glibly said as no one has told us what variety or varieties of the Mediterranean race are to be found in India! To say that the "Euro-African" variety of human species of Sergi is to be found in India is an easy task, as the dolichoid-mesorrhine element does exist in India. In my article entitled "Das Indische Kasten System" referred to above I have shown that, by making a biometrical analysis of the data of somatic measurements of several castes from the Punjab to Bengal as given by Risley, it has been found out that in all the castes except the Jat-Sikhs the dolichoid-mesorrhine element is in a majority. Further, Risley's list of the castes measured in South India and the data given in his book called "The People of India" reveal the fact that the cephalic and nasal index averages of these castes show them to be dolichoid-mesorrhine. Again, in my dissertation entitled "Eine Untersuchung der Rassenelemente in Belutschistan, Afghanistan und den Nachbarländern des Hindukusch" submitted to the Hamburg University in 1924, by making a biometrical analysis of Risley's data on Beluchistan tribes, I have shown that the dolichoid-mesorrhine biotype is to be found in preponderant number with the Belooches of Murri and Bugti Hills and with the Pani Pathans. I have pointed out further that this type can be followed up to Persia.¹

Thus the question of the existence of the dolichoid-mesorrhine biotype in India is an important one. If it belongs to the so-called "Mediterranean Race" of Sergi then it must be determined with which branch of the same species, otherwise it will be glib talk.

Since the abovementioned analysis of mine was made, new finds have come to the surface, and the excavations at Kish and at Mohenjodaro have shown the presence of the above type called by the anthropological examiners as the 'Mediterranean Race' at both the places. Thus, Buxton says, "There

¹ Daniloff, "Anthropological Characteristics of the Persians." (In Russian.)

are indications that the older population both in India and Mesopotamia before the coming of the roundheads, was similar."¹ But more about it later on.

Further, the anthropological reporter of the Census has expressed the opinion that "we may therefore infer, Northern India was occupied by Mediterraneans before the Armenoid stock began to mingle with them." It is a possibility with which I have also agreed in my abovementioned writing by saying that brachycephal-leptorrhine biotype which is known in Western Asia as the "Armenoid type" appears in India as the dolichoid-mesorrhine biotype.

Finally the Census reporter speaks of the Vedic Aryans or Indo-Aryans as the latest incomers in India (*circa* 1500 B.C.) who first occupied the area between Indus and Jumna, and later on sent colonies into Hindustan. These Vedic peoples were called the Proto-Nordic Aryans. It is a new nomenclature used by Haddon.² Anyway, by Vedic Aryans it seems they mean the same dolichoid-leptorrhine biotype which the Pan-Germanist writers call as "Nordic." But it seems some of the English-speaking writers have modified the expression "Nordic" as far as India and other parts of Asia are concerned, and they use a modified expression "Proto-Nordic" in order to distinguish it from the blond Nordic. Dixon uses the term "Caucasian,"³ to be applied to the same biotype. But the exponents of the German school of anthropology would not modify the definition of the race speaking the Indo-Germanic language. To them North Europe is the home of the races speaking Indo-European which they call Indo-Germanic language and as late as in the post-war period of world's history, Eugen Fischer says, "philological archaeological and anthropological researches combine to indicate that the primal home of the Indo-Germanic languages must have been in northern Europe."⁴ And

¹ Buxton and Rice, J.R.A.I., Vol. LXI.

² Haddon, "Races of Man."

³ R. B. Dixon, "The Racial History of Man," 1923, pp. 362-67.

⁴ Erwin Baur, Eugen Fischer, and Fritz Lenz, "Human Heredity," p. 194.

basing his evidence on the anthropological researches of Von Eickstedt and Emil Schmidt, he still speaks of a migration of the "Nordic" race to India which though modified by admixture with dark autochthones yet have left enough Nordic characteristics in their mongrel descendants.¹

It is a question of controversy and national world view, and the "Aryan controversy" is a part of national and political controversy in the history of modern world.² It will take a volume to discuss this never-ending controversy.

Coming back to the anthropological report of the Indian Census of 1931, we see the learned author has reiterated Risley's dictum that nasal index indicates the social precedence of any caste. In my abovementioned article entitled "Das Indische Kasten System" I have tried to show that the Indian caste system has no racial basis, that the social status of a caste does not stand in inverse ratio with his nasal index. But more of it later on.

Finally the great scholar after bringing all the races of Asia into India sums up his views on Indian anthropology with a résumé saying that the above views are not the final word on races in India. Thus when perusing the anthropological report of the Census of 1931, it is evident to us that the reporter has not led us out of hypothetical speculation into anthropological certitude. While going over the anthropological views in this report, it is evident that the views of the two great English-speaking anthropologists, Haddon and Dixon, crop up often and anon in this paper and once in a while Dudley Buxton comes to the rescue. The impression that it imprints in the mind of the reader is that the spirit of these three members of the English-speaking school dominates this anthropological report of the Indian Census, 1931. But with due deference to the reporter and to the abovementioned gentlemen from whom we learn so much, I must say that there are other schools which have interested themselves in

¹ E. Fischer, etc., "Human Heredity," p. 194.

² Ripley, "European Races."

the cause of Indian anthropology, and their investigations and views should be considered as well.

Before we make an excursus to find out the result of the researches of other anthropologists we must fix the topics on which the whole controversy of Indian anthropologists stands. To us, it seems the whole controversy can be decided by settling the questions of the presence of the following racial elements *viz.*, Negrito, Veddah, Dravidian, Mediterranean, Armenoid, Mongolian, the Nordic migration from outside in historical period, and the Mon-Khmer.

THE NEGRITO QUESTION.

People have been on the look-out to find the 'Negro' or 'Negrito' in India for a long time. Since Max Müller discovered the Aryans in the Vedas who described themselves as fair-skinned and decried the dark-skinned 'Dasyus,' and since the similarity between the European languages and Sanskrit was established, the occidental thinkers have been wondering at the dark skin of the present-day Indians! To solve the discrepancy between the so-called "white-skinned" Vedic peoples calling themselves 'Aryas' and the present inhabitants of India, the occidental scholars began their search for the 'Negro' in India, and they are still at it!¹

De Quatrefages,¹ the father of present-day physical anthropology, in his book "Les Pygmies" written in 1887 while tracing the Negritos in India quoted Latham² who said of the Rajmahalis of Rajmahal Hills lying on the border of the provinces of Bengal and Bihar, that, "Some say their physiognomy is Mongolian, some say their physiognomy is African." Then he says, "Dans l'Inde et dans ses dependances toutes ou presque toutes les populations de petite taille et à teint noir sont plus ou moins métissées de Negrito."³ (In India and in its dependencies

¹ A. de Quatrefages, "Les Pygmies," Paris, 1887, Librairie J. B. Baillière et Fils.

² Latham, "Descriptive Ethnology," Vol. II, p. 417.

³ de Quatrefages, p. 88.

all or nearly all the population of small stature and of black colour, are more or less mixed with the Negrito.) Also he says, "Se sous-type Negrito est un des plus anciens, de la race, et était au moins prédominant dans l'Inde et dans l'Indo-Chine, lorsque commencèrent tes croisements."¹ Thus according to him the subtype Negrito is the older section of the Black race and it was somewhat predominant in India and Indo-China where inter-mixture with other races took place. Then he speaks of a black population stretching from India to Luristan—all this he thinks to be the Dravidian or Negro substratum. He further thinks that Herodotus' oriental Ethiopians will fit in as Dravidian tribe in Luristan (Western Persian province). Herodotus spoke of the oriental Ethiopians as with black skin and straight hair. De Quatrefages also thinks that the Jats as described by Elphinstone are probably the Ethiopians of whom Herodotus has mentioned, and this people have as yet conserved intact the colour and the fundamental type.²

Further, de Quatrefages says "Tout tend de plus en plus à démontrer que la race negrito, dont les Mincopis sont les représentants les plus purs, est l'élément Negre fondamental de toutes ou presque toutes les tribus dravidiennes"³ (All tend to show more and more that the Negrito race whose purest representatives are the Mincopis is the fundamental Negro element of all or nearly all the Dravidian tribes).

Thus de Quatrefages identified the Mincopis of the Andaman Islands as the purest Negritos and the basis of the Dravidians to be Negro race. He regarded the Negritos to be existing in India⁴ and again he conjointly with Hamy emphasized the same views.⁵

Before this was established by de Quatrefages, one F. A. Allen read a paper on "The Original Range of the Papuans and Negrito Races" before the Anthropological Institute of England in 1879

¹ De Quatrefages, p. 81.

² De Quatrefages, p. 91.

³ De Quatrefages, p. 189.

⁴ "Pygmies," pp. 58-69.

⁵ De Quatrefages et Hamy, "Cranae Ethnica," 1882, p. 188.

and tried to prove that the Papuans and the Negritos are the relatives of the African Negroes. As regards the Indian aborigines, they are the "Asiatic Ethiopians" mentioned by Homer and the Colchis people of Caucasus are of a black Negrito race.¹

In 1889 Flower, discussing about the "Pygmy Races of Men" said, "In India proper, especially among the lowest and least civilized tribes, not only of the central and southern districts, but almost to the foot of the Himalayas, in the Punjab and even to the west side of the Indus, according to Quatrefages, frizzly hair, Negro features, and small stature are so common that a strong argument can be based on them for the belief in a Negrito race forming the basis of the whole pre-Aryan, or Dravidian as it is generally called, population of the Peninsula."² But this wild assertion, it is evident, is only the re-echo of de Quatrefages' opinion.

Again, Man in his book on the Andamanese expresses the opinion that the aborigines of the Andaman Islands are broad-skulled Negrito pygmies, and further he differentiates the Min-copis of the Andaman Islands with the Nicobarese. He says, "While the Andamanese, inspite of their many excellent qualities, must be regarded as one of the most degraded and barbarous races in existence, the Nicobarese, especially of Northern Islands, prove themselves worthy to be ranked almost on terms of equality with their kinsmen inhabiting the Malayan Peninsula."³

Later on Martin, in his quest after the Negritos in Malay Peninsula says, "Am nächsten liegt ein Anschluss der ulotrichen Semang an die Negrito der Philippinen und an die Bewohner der Andamanen, auf die ja schon von verschiedenen Seiten bingewiesen wurde."⁴ Thus here he says that the connection between the ulotrichous Semang with the Negrito of the Philippines and

¹ J. A. Institute, Vol. 8, 1879, pp. 38-50.

² Jour. Anth. Inst., 18, 1889, p. 82.

³ E. H. Man, "The Nicobar Islands" in I. A. Inst., London, Vol. 18, 1889.

⁴ R. Martin, "Die Inland Stämme der Malaysischen Halbinsel," 1905, pp. 1022-23.

with the inhabitants of the Andamans is very close. Further he says that the excellent comparative works of Flower, Man and others show that the racial features of the inhabitants of the Andaman Islands, especially that of the South Andamans, agree with the somatic characteristics of the Semang. The hair of the Andamanese is woolly, its cross section long-oval, and colour black. Further, the Andamanese skull is similar to that of the Semang.¹ The cephalic index of the same Semang is given by Martin as male 77·9, female 77·8, *i.e.*, they are mesocephalic. As regards the indices he says that all the inland tribes of the Malay Peninsula are dominantly mesocephalic, and clearly mesorrhiny, occasionally chamoerrhiny, is to be found in the range of individual variations.²

Again, G. A. Koetze says, “Die Semangs und Sakais von Malaka sind bestimmt Negroes, ebenso wie Man die Bewohner der Andamanen, die sogennate Mincopis zu den echten Negritos rechnet³ (The Semangs and Sakais are surely Negroes, while the inhabitants of the Andamans, the so-called Mincopis, are reckoned by Man to be real Negritos.) The stature of these Mincopis as given by Deniker is 148·5 cm., by Hovelacque-Hervé for men 148 cm., for women 140 cm., cephalic index 80-84, length-height index 77·5, Nasal index 49-51, and orbital index 91. So these, according to Koetze, are hypsi-brachycephal, Mesorrhin, hypsikonch.⁴

As regards the physical characters of the Negritos the same author says : “The Negritos are exclusively a brachy-hypsicephal, leptoprosop, mesorrhine (also platyrhine), mesokonch, woolly hair, short stature, of very dark skin.colour.⁵

As regards their connection with the Melanesians Koetze says, “Wenn Man sie früher mit den Papuas identifiziert hat, so ist dies wohl ein offenbar Irrtum, die übereinstimmung bezieht sich

¹ Martin, pp. 1028-26.

² *Ibid.* pp. 412-13.

³ G. A. Koetze, “Crania Ethnica Philippinica.” Haarlem, H. Kleinmaant Co, 1901-1904, p. 162.

⁴ G. A. Koetze, p. 162.

⁵ *Ibid.* pp. 222-224.

auf Äußerlichkeiten, die genaue Untersuchung der Schädel hat aber ganz andere Resultate geliefert, dann während die Melanesien exquisit dolichocephal sind, sind die Negritos exquisit brachycephal.¹ (If Man formerly has identified them with the Papuans then it is a clear mistake. The similarity exists only outwardly. The exact examination of the skull had given a different result, as the true Melanesians are strongly dolichocephals, the Negritos are brachycephals.)

Deniker likewise counts the Mincopis amongst the Negritos.² But he says the Negritos of Asia are mesocephals or sub-brachycephals.³

Thus so far about the Negritos outside India. Now the question comes whether there is any Negrito element within India proper ?

NEGRITO IN INDIA.

Already we have mentioned that de Quatrefages, Hamy and others opined about the trace of Negrito element in India proper amongst the Dravidian tribes. But all these opinions are quotations without scientific data borrowed by the one from the other.

But Deniker speaking about the people of South India says, " Certaines de ces tribus offrent un type negritoide, étant noir aux-cheveux tres' frisés, comme par example les Chenchu, les 'yanadi' de l'isle-Sriharicota. D'autres tribes comme les Kadir ou Kadan des monts Anaamrai offrent un melange de types negritoide et Indonesian...Tchorouma, les Paniyanş...sont encore plus petite (pres de 1m. 25 en moyenne) et ont le nez très'large et les cheveux très' frisés.⁴ [Some of the tribes show a Negroid type, being black with very frizzled hair, as for example the Chenchu, the Yanadi. Besides the tribes as the Kaders show a mixture of Negroid and Indonesian types...the Tcherouma, the Paniyans very small

¹ Koetze, pp. 222 32.

² J. Deniker, "Les Races et les Peuples de la Terre," Edition of 1926, p. 479.

³ J. Deniker, p. 368.

⁴ Ibid p. 498.

(average lm. 25) and have very broad nose and very frizzled hair.] Here is a remark that frizzly-haired broad-nosed peoples are to be found in South India. But the report is too vague to come to any definite conclusion. But Lapicque in 1906 answers this question by saying, "En réalité, il n'existe dans ces Montagnes, ni probablement nulle part dans l'Inde, un témoin de la race comparable, comme pureté aux Andamanais ni même au autres Negrito.¹ (In reality, there neither exists in these mountains, nor probably in other parts of India, a primitive race comparable in its purity with the Andamanese nor to the other Negroes). Lapicque says further that the primitive inhabitant was dolichocephalic or subdolichocephalic in head form.²

Further A. B. Meyer while discussing the Negrito question in general in his book called "The Distribution of the Negritos in the Philippine Islands and Elsewhere" says, "We have found that all accounts of Negritos outside the Philippines are based on very slender and poor evidence (properly speaking on none at all), or are the result of errors in consequence of insufficient criticism of the sources or misunderstanding of the original statements, which in their turn are frequently unreliable and perverted."³

Then he cites Virchow who said in 1843 "that the notices of the occurrence of Negritos beyond the Philippines, Malacca and the Andamans are almost without an exception romantic."⁴

Further Meyer says, "The case of Negritos in Nicobar Islands remained unproven. Negritos exist in Malacca, and in the Andamans."⁵ As regards India proper he says,⁶ "The statement of the writers on the black races of India are however most

¹ Lapicque, "Les Negres d'Asie, et la race Negre in general" Vol. I, *Revue Scientifique*, VI, 1906.

² Quoted by Thurston, "Castes and Tribes of South India," Vol. I.

³ A. B. Meyer, "The Distribution of the Negritos in the Philippine Islands and Elsewhere" Dresden, Stengel & Co., 1899, p. 78.

⁴ R. Virchow, "Corres. Blatt. Deutsche Anth." Bds. XXIV, p. 117.

⁵ A. A. Meyer, p. 70.

⁶ *Ibid.*

contradictory...de Quatrefages and Hamy regard the Negritos as already established in India, but Topinard was of another opinion when he said ' Il n'est pas démontré que les populations noires de l'Inde mentionnées dans de Mahabarrata fussent negritos.'¹ (It is not proved that the black peoples of India mentioned in Maha-bharata were Negritos.)² Callamand is still more strongly opposed to Quatrefages and Hamy.

He says, "Ni par la forme crânienne, ni par les cheveux, ni même par la taille, les noirs d'Inde ne peuvent être regardés comme les représentants de l'antique race négrito qu'une doctrine avancée voudrait considérer comme les véritables aborigines de l'Inde?"³ (Neither by the cranial form, nor by the hair, nor by stature, the blacks of India could be regarded as the representatives of the primitive Negrito race ; it would be an adventurous doctrine to consider the same as the true aborigines of India.

Again, "Virchow,⁴ regarded the proof of the writers of the 'Crana Ethnica' as insufficient and demurs⁵ strongly to accepting a true Negrito race as an aboriginal one in India."⁶ Thus so far we have quoted the opinions of the noted physical anthropologists and craniologists regarding the trace of the Negrito race in India. Further, the opinions of a few more writers are here quoted before we close this discussion. Long ago I. Crawfurd in an article entitled "Supposed Aborigines of India" published in the "Transactions of the Ethnological Society of London," 1868, said, "It is an opinion, very generally entertained by the Indian ethnologists, that the races which they suppose to be the aborigines of India partake of a Negro character, in contradistinction to the civilised people of most lands ; but this is a notion for which I am satisfied there is no ground whatever."⁷ Further an interesting letter written by Mr. V,

¹ Topinard, "Anthropologie," 2nd ed., 1877, p. 516.

² Callamand, "Revd. Anthropologie," 2nd Series, 1878, I, p. 524.

³ Virchow, "Weddes," 1881, p. 127.

⁴ A. B. Meyer, p. 70.

⁵ I. Crawfurd, "Transactions of the Ethnolog. Soc. of London," Vol. VI, p. 65. New Series, London, John Murray, 1868.

Ball from Dublin, 18th May 1845, to the editor of 'Nature' refuting the opinion of de Quatrefages and saying how the investigators are misled is quoted here. The letter is capped with the title "Repeated Traces of Negrito Pygmies in India." The writer says, " May I be permitted to suggest to readers of all Quatrefages' work on the Pygmies, the English edition of which has recently been revised in India, to pause before accepting his conclusions as to traces of Negritos being found in peninsular India. The evidence he relies on partly consists of a descriptior by M. Rousselet of a half-starved wanderer from Sirguja whom he assigns to the race Banderlakh (as it is printed in the English edition, Bandreh lokh) and the tribe Djangal. Any Anglo-Indiar with the slightest knowledge of the language, not to say o Ethnology, would be amused at such nicknames being given at definite racial terms. The first simply means monkey-people (equivalent to savage), as applied by dwellers in the plains to the wilder inhabitants generally ; and the second, if it can be said to mean anything in the form presented, is simply ' Jangly ' or a dweller in jungle. As I spent some days in the company o the late General Dalton in connection with the production o his great work on the Ethnology of Bengal, to which I had the privilege of contributions...I was, moreover, well acquainted with the true Negritos of the Andamans, of whom I had then already seen many, and I do not hesitate to say that I never met with the slightest trace of a Negro element amongst the numerous tribes I am acquainted with during many years' travelling in the hilly tracts of Western Bengal, the Central Provinces and the Northern Provinces of Madras. Individuals belonging to different tribes with curly (not really woolly) hair are occasionally to be seen, but I venture to think that such occasional freaks are casual, and wholly without significance. I shall sa no more at present save that the evidence culled by M. Quatre fages out of general Dalton's lithographed groups—out of a gir with her hair cropped short, and another of two somewhat curly

headed Santals in support of his theory,—is not merely feeble, but is liable to mislead.”¹

Thus the outsiders are often misled, and these misleading reports being oft quoted take the form of scientific facts.

Then we quote another important authority, the Sarasins,² who said “Das Fehlen aller ulotrichen formen in Vorder-Indien fällt so schwer ins Gesicht.” (The absence of all ulotrichous forms in South India would strike one strongly in the face.) He does not think there is any Negrito element in South India as in the Andamans.

Finally we come to the reports of the modern investigators. Thurston³ has not mentioned any trace of Negrito or Negroid characteristics in the South-Indian tribes. Dr. E. Von Eickstedt has not reported any trace of Negrito or Negroid characteristics of the same people. But Dr. B. S. Guha⁴ is reported to have found frizzly hair amongst the Kaders. Regarding the Kaders he says, “he was fortunate enough to find five men and one woman with undoubtedly spirally curved hair, one of whom was pure woolly with short spirals, and the rest were frizzly type similar to that seen among the Melanesians. Besides this spirally curved hair, the Kaders are short, of very dark complexion....prognathic, and have not infrequently receding foreheads.” Then he says that these Kaders do not seem to be brachycephalic, as of those 5 men with spirally curved hair “two are mesocephalic” while the rest are in the lower grades of dolichocephaly. It is improbable that the Negrito element among the Kaders was originally brachy- or at least mesocephalic.”

Here the description of the Kaders given by Dr. Guha betrays anomalies in the physical traits of the same. The misshapen skull with receding forehead and prognathism may

¹ This portion is now within the Province of Behar.

² V. Ball in *Nature* Vol. III, Oct. 1885.

³ P. & F. Sarasins, “Ergebnisse Naturforschenschaft to sein Forschungenunt Ceylon,”

p. 315.

⁴ E. Thurston, “Castes and Tribes of Southern India,” Vol. I, A & B, 919 and 9.

⁴ B. S. Guha, “Negrito Racial Strains in India,” “Nature” 19 May, 1928.

betray Australoid traits in them, and if they have spirally curved hair then that is a trait of Negroid in them. In that case, the subjects show heterozygotic traits in their features. Guha himself admits of the improbability of a Negrito strain being in them. On the other hand, Eickstedt says, "Inder Tat weisen die Weddiden lockiges Haar auf die malide Untergruppe sogar englockiges Haar. Bei einigen Stämmen, soden Kadr, treten auch gekräuselte Haare bie gleichzeitiger Vergrößerung des Typus auf." (In fact the Veddahs exhibit curly hair, and the sub-group really close-curled hair. Some tribes as the Kaders have frizzy hair and of a coarser type.) But as regards the Negrito strain with the Kaders, he further says, "Es ist nich trichtig wenn man die Maliden, wie das oft geschah (Z. B. von Lapicque und Keane), ohne weiteres zu den Negritos stellt, dnpn diese sind zwar recht kleinwuchsig, noch viel klein wuchsiger als die Maliden, sind sehr dunkelhäutig und extrem kraushaarig, aber sieweisen keineswegs die grosse Primitivität der Maliden und deren Eigenmerkmale auf. So dürfte es vorsichtiger und richtiger sein, das Aufgehen einer Proto-negritiden Komponent in der altindischen weddiden Urbevölkerung an zuuehmen. Es liegt also bei den Malidenwie bie den Melaniden-ein besonders typischer Fall weitgehender Harmonisierung rassischer Grund Kompon-nten vor."¹ (It is not proper when the Malides are counted, as it was done by Lapique and Keane, with the Negrito, as these are really Pygmies, much smaller than the Malides, are very dark-skinned and extremely wooly-haired ; but they by no means show the great primitivity of the Malides and their characteristics. Therefore it would be more careful and correct to see a proto-Negritide component in the old Indian Veddoid aboriginal population. Also with the Malides and the Melanides an especial typical case of far-reaching harmonising racial basic components is attested.)

Thus the question of a Negritoid strain finally centers round the nature of the hair of the Kaders ! Guha has discovered

¹ E. F. von Eickstedt, "Rassenkunde und Rassengeschichte der Menschheit" Stuttgart, 1934, p. 182.

² Ibid, pp. 182-83.

spirally curved hair in a few Kaders, and Eickstedt says these people have frizzly hair. Guha is doubtful if the original Negrito element among the Kaders was brachy- at least mesocephalic. But we have seen already that the Negrito type is brachycephalic, and according to Deniker at least mesocephalic. But when according to Guha there is no trace of broadening of the skulls of the Kaders, it must be taken for granted that the Negroid element has not entered into the composition of the Kaders. On the other hand Eickstedt vehemently denies the Kaders have Negrito traits in them, as the latter are of different characteristics. Hence he suggests the possibility of a proto-Negrito component entering in the make-up of the Kader tribe. But this only leads us to anthropological obscurantism.

Another alternative may be suggested that, as the archaeologists say, South India was in contact with Africa in ancient times, the proof of which has been found in the traces of Indian civilisation and in the presence of the Indian type of oxen (*Bos indicus*), it would not be impossible that some stray infiltration of African blood might have taken place in historical period in the tribes living on the seaboard. Anyway Guha's subjects show stray cases amongst the multitude he measured. Is it the atavistic strain from the stray wanderers off the African coast or does it betray the trait of a submerged Negroid race ? The photos of the subjects of a kindred tribe, the Panyans, as shown in the book of Eickstedt, do not show frizzly or spirally curved hair. These people whom Eickstedt has put along with the Kaders as the " Malide " show close curly hair, which is neither woolly nor frizzly. It is strange that a few of the Kaders will only show it.

Anyway, the discussion about the hair of the racial composition of the Kaders is still in the theoretical plane. We do not agree with Dr. Hutton that the finality of the discussion has been reached. The final solution of this much vexed question lies in examining the root of the Kaders' hair in cross

¹ Vide V. Luschütz, "Sprachen Rassen und Völker."

section. Unless and until the cross-section examination of the hair of the Kaders is made, the matter will remain as *sub judice*.

Then, as mentioned beforehand, Dr. Hutton himself has raised the question of the presence of an ulotrichi element amongst the Nagas living in hills beyond Assam in Burma. He says, "Now in Naga Hills specimens of more or less ulotrichous hair are to be seen with some frequency in certain areas." But though this area is a part of the possessions of British Indian Government, it is outside India proper.

After going through the reports, sometimes contradictory, we would say that when discussions and doubts have been raised regarding the presence of woolly or frizzly-haired peoples in British India, the law of Mendelism working in this matter must not be forgotten.

Hair-form is one of the permanent racial traits. It remains constant in a race. And there are different forms of hair showing different racial characteristics. The racial characteristics of hair is the texture and the form of the root that is to be seen in the cross section. Regarding these traits Ripley says : "The two extremes of hair texture in the human species are the crisp curly variety so familiar to us in the African Negro ; and the stiff, wiry, straight hair of the Asiatic and American aborigines. The traits are persistent ; they persevere oftentimes through generations of ethnic intermixture."¹ Further he says, "The result of such intermixture is to import a more or less wavy appearance to the hair."² Thus according to him as a result of cross between woolly hair (crisp curly variety) familiar to all through the Negroid type of men and the stiff and straight hair connected with the East Asiatic or Americans, an intermediate form known as wavy form of hair takes its rise. Again, Gates also corroborates it by saying, "Wavy is regarded as a heterozygote of curly and straight, curly being recessive, but there is no sharp line

*¹ Hutton, "A Negrito Substratum in the Population of Assam."
—Maxim, Vol. VIII, No. 4, Dec. 1927.

² Ripley, "Races of Europe, pp. 482-53.

between wavy and curly.¹ Thus it is evident wavy hair is not a primary form. Further Martin says, " ohne Zweifel das gekräuselte Haar in vielen Fällen keine primare Bildung, sondern aus der Kreuzung eines Krauses mit einem straffen oder welligen Haar hervorgegangen "² (Undoubtedly, frizzled hair in many cases is not a primary form, but arises out of crossing between a crisp curly or woolly with a stiff straight or wavy hair). Thus we find both that the wavy and frizzled forms are of secondary character, and these being of heterozygotic character, must split up in F_2 generation according to Mendelian rule and the ancestral traits will come up in some of the offsprings. In this matter Fischer has clearly said, " Die elterlichen charaktare treten wieder auf"³ (the parental characters re-appear again).⁴

This being the latest opinion of Science, it remains to be seen that if the heterozygotic frizzled hair is to be found with the Kaders of South India and with some Nagas of the Assam-Burma Frontier, then according to Mendelian law the homozygotic ancestral character must be there as well. And the discovery of those ancestral elements will give us the real clue to the much debated Negrito or Negroid problem in India! For this reason when the question of the presence of a trace of the Negrito element has been raised it must be thoroughly investigated and settled finally, and until then we cannot accept any opinion; for the outward form is deceptive.

The attempt to find the Negroid element is being followed in other parts of India. The Hos of Kolhan (Chota Nagpur) who are dolichocephalic, with hair wavy to curly, and with slight prognathism, has been called by the reviewer of the "American Journal of Physical Anthropology," Vol. IX, as thus : " It seems

¹ B. B. Gates, " Heredity in Man," p. 815.

² R. Martin, " Lehrbuch," Vol. I, p. 214.

³ Eugen Fischer, " Die Rehbother Bastards," pp. 224, 1913, Jena.

⁴ C. B. Davenport, " Race-crossing in Jamaica " Sci Monthly, XXVII, 1928, pp. 225-38; G. C. and C. B. Davenport, " Heredity of Hair-form in Men," "Amer. Natur." XLIII, 1908, pp. 193-211. C. B. Davenport, " The Effects of Race intermingling." Proc. Amer.

to the reviewer that here is one of the numbers of small remnants scattered over the more southern parts of India which suggest very strongly Negritoid origin or admixture.¹ Again the same paper speaking about the Birhors says thus : " Among the photographs a number, to the reviewer, suggest a strong remnant or admixture of the Negritoid blood."²

Thus the Negrito is being attempted to be found at Central India even. The reason for suspicion is not given. Does the reviewer of the anthropological journal in question think that prognathism coupled with a long skull is enough evidence to name it as " Negritoid ? " The investigators of Mohenjodaro skulls have identified a long-shaped skull with subnasal prognathism which is similar to Adiltanallaur " Proto-australoid " skull. The same opinion is given by Elliot Smith regarding the latter.³ Here with the Hos, the same characteristics are to be found; hence, will it not be more correct to identify the Hos as an Australoid people rather than a Negritoid one? As regards the Birhors, the cause of remark is not given by the reviewer. Surely wavy or curly hair, prognathism and dolichocephaly cannot be the signs of Negroid characteristics !

As regards prognathism, Brinton⁴ has said long ago, that it cannot be a racial characteristic. Prognathism is also to be found amongst the Europeans. Indeed Luschan speaks of two kinds of prognathism that are to be found with the Europeans : (1) " normale geringe prognathie des Europaers, (2) starkere grade von prognathie, die aber auch noch bei Europaen vor-kommen."⁵ Further Ranke has said that prognathism is not a sign of lower form.⁶

¹ American Journal of Physical Anthropology, Vol. IX, p. 124 : " Physical Characteristics of the Hos of Kolhan."

² Ibid, " The Birhors " (by S. C. Roy), p. 124.

³ Elliot-Smith, " The Evolution of Men."

⁴ Brinton, " Races and Men."

⁵ Von Luschan, " Andeutung zu wissenschaftlichen Beobachtungen auf der Geschichte der Anthropologie," etc., p. 30.

⁶ Quoted by Sarasins, p. 244.

In the same way the Tinnevelly skull examined by Dixon,¹ is said by him to be Negroid. But Eickstedt reports that the Malide branch of his Veddic race show from time to time slight prognathism.. Hence the Southern Tinnevelly skull instead of being " Negroid " may be ' Veddoid !

Hence prognathism in a skull or in a head of a dark-skinned man does not make him a Negrito or Negroid. We cannot single out one or two characteristics for the identification of a racial type; different characteristics must be combined to establish the type. Regarding this Sergi says, " We cannot accept the evidence of the cephalic index when that evidence is contradicted by other important facts...the character to be selected as the means of classification must be constant...then the other characters may be used to complete the established type ! " For this reason, a stray case of prognathism or other trait in a dark-skinned man is not enough to establish his racial type. It is a strange thing that Eickstedt thinks that the same Hos show the traces of Palaeo-mongolian influence.² Thus the different anthropological writers contradict each other. Hence the last alternative left to a student of physical anthropology is to apply the test of finding the cross-section of the hair-root and see its results.

THE VEDDAH QUESTION.

The next is the Veddah or Wedda question. The Veddah question has been investigated ; physical as well as craniological measurements have been taken by some leading scientists of the skulls collected by Hamilton Smith and measured by de Quatrefages and Hamy;³ the skull indices are 75·90; 77·71 and the nasal index is 46·5. Virchow⁴ gives the skull index of the two skulls measured by him as 71·9, Bernard Davis⁵ gives the skull

¹ Eickstedt, p. 214.

² Dixon, p. 261.

³ De Quatrefages et Hamy, "Crana Ethnica," pp. 505-06.

⁴ R. Virchow, "Die Weddas," 1881.

⁵ B. Davis, " Thesaurus Cranium,"

index of his eleven skulls as 71·3, Flower¹ gives 71·9 for his eight skulls, and the series of nine skulls collected by A. Thomson at the Oxford University gives the total average index as '76·1.

Then the average cephalic indices of the eight Veddahs measured by Emile Deschamps² are 72·31, nasal index 84·18. Then come the measurements on living Indians made by Jagor³ and worked out by G. Koerbin. The cephalic index of his eight Veddahs is 72·75, and the nasal index is 86 0. Finally come Paul Sarasin and Fritz Sarasin⁴ who are the most important authority on the Veddah problem.

The Sarasins have made a thorough investigation of the physical anthropology of the Veddahs and the other races living in Ceylon. The average stature of 71 male Veddahs they give as 1576 mm. The average stature of 28 Veddah females they give as 1473 mm. Then they give the following averages of twenty-one male skulls and eleven female skulls : Length-breadth skull index is 71·6 for male and 71·2 for female. The nasal index for 6 is 52·5 and for eight females is 52·0. Further Haddon gives the skull index of the Veddas to be 70·5, and Martin quotes the figures of the Sarasins. The average of cranial capacity for males is 1294 c.cm. for 1151 c.cm.

Here we see, the Veddah skull on the average is dolichocephalic, except the figures given by de Quatrefages and Hamy and Thomson which are mesocranial.⁵ As regards the cephalic indices of the living they are dolichocephals. As regards the nasal form it varies between mesorrhinic and chamoerrhinic,

¹ Quoted by Emile Deschamps in his "Les Veddas de Ceylon."

² Emile Deschamps, "Les Veddahs de Ceylon" in *L'anthropologie*, Vol. 2, 1891, pp. 327-330.

³ Jagor, "Messungen von lebenden Indern," *Zeitschrift für Ethnologie*, Band XI, 1872.

⁴ P. Sarasin and F. Sarasin, "Ergebnisse, Naturwissenschaftlicher Forschungen auf Ceylon," Weissenbaden, 1887-1893.

⁵ Sarasins criticise Thomson collection as of a mistaken nature. Cranial capacity of his collected skulls does not show true capacity of the Veddahs, skull, pp. 21-22.

and in stature they are small. But regarding stature the Sarasins say they are not the smallest people; they do not deserve the epithet 'Pygmy' that is from time to time applied to them. "Die Weddas lange nicht die kleinsten lebenden Menschen formen sind und den Namen eines Zwergvolkes, der ihnen gelegentlich beilegt wird, nicht eigentlich verdienen."¹

As regards hair-form he says, it is decidedly wavy² (entschneden wellig zunennen). Thus so far about the Veddahs.

In connection with the Veddahs, the Dravidian question naturally turns up; therefore an enquiry into the physical anthropology of their neighbours must be made and this has been done by the Sarasins. That section of the Dravidians who are the neighbours of the Veddahs are the Tamils. These people dwell both in Ceylon and South India.

Regarding the Tamils the Sarasins say the hair of the Tamil is not different from that of the Veddahs, it is also wavy; on the average it is a little rough and shows more tendency to be curly than the Veddah-hair.³ The hair of the Singhalese is also wavy. Their growth of beard is more plentiful than that of the Veddahs and Tamils.⁴ The eagle nose (Adlernase) of many Singhalese is a striking characteristic of this variety.⁵ In connection with the features of the Singhalese, the Sarasins and A. N. Ferguson speak of their physical similarity with the Bengalees of to-day.⁶ Then he says the Singhalese on the average are lighter-complexioned than the Tamils.

Further, the Sarasins speak of the absence of ulotrichi form in South India (Vorder-Indien).⁷ As regards the comparative study of these three types, the Sarasins quote the investigation of Virchow and says, "Virchow glaubte, zwischen den drei ceylonischen varietaten einen Unterschied am Aufbau der Schadel Capsel

¹ Sarasins, p. 89.

² Sarasins, p. 97.

³ Sarasins, p. 122.

⁴ P. 87.

⁵ The reader should remember the remark of the Chinese traveller Fahien in ancient times in the matter of this characteristic.

⁶ 128 f., p. 34 f.

⁷ P. 81.

in so foern constatieren zukönnen, als di drei Knochen : Stirn bein, Scheitelbein und Hinterhauptbein sich in ungleichen Masse an der Bildung der sagittal curve betheiligen sollen." (Virchow believed that between the three Ceylonese varieties, a difference of structure of the skull capsule can be proved so far that the three bones—frontal bone, parietal bone and the occipital bone—take irregular part in the building of sagittal curve.)¹ Further, Virchow says that the occiput is strongly developed with the Singhalese and Veddahs.²

In conclusion, in giving their views they say that the Tamils on the average are more related to the Veddahs than the Singhalese and think that the great mass of the Dravidians can be regarded as the direct steps of further evolution of the Veddah form, and in addition to it the Aryan element has been mixed in the higher castes. (Wir sind daher der Ansicht, dass die Tamilen durch schnittlich naher mit den Weddas verwandt seien als die Singhalese und glauben, dass die grosse menge der Dravider direct als weitere Entwicklung stufen weddaischer formen angesehen werden dürfen wo zu dann, und zwar vornehmlich in den hoheren kasten, noch ausserindische, vornehmlich arische Elemente hinzu käme.)³ On the other hand as the Singhalese, on account of their difference of characteristics in superior numbers with the Veddahs, stand in more distant relation to them than the Tamils, therefore the Sarasins think the Singhalese have taken Aryan blood in larger quantity than the Tamils.⁴ Further, they think the difference between the Singhalese and the Tamils lies in the difference of percentage of mixture of Aryan blood in them.⁵

Again they say on this account it can be taken with certitude that the tribes corresponding to the Veddahs that can be found in many places in South India (Vorder Indien) are the same which are to be regarded as the remnants of an old population, which perhaps spread itself over the whole of India in ancient times.

¹ See also Virchow's " Die Weddas."

² " Die Weddas."

^{3, 4 and 5} Sarasins, pp. 850-85.

They further say, that their comparative examination of the Veddahs and Tamils show that it would not be right to put these small-statured tribes together with the Dravidian population ; they represent the remnant of a pre-Dravidian period, and in order to give a definite nomenclature they have given the name "Veddaish" to all these tribes. (Dass es unrichtig sei, diese kleinwuchigen staemme...mit der dravidischen Bevoelkerung zusammen zu werfen, sie stellen vielmehr die Reste einer vordravidischen Zeit dar, alle diese Stamme unter dem Namen der weddaischen zusammen fassen.)¹

They further say though the differences between the Veddahs and the Tamils are so clear that they can be expressed in figures, yet they are not of such sort that it is necessary to make a principal difference between both these forms. It can be accepted that in favourably situated coastal regions or in fruitful plains higher-statured tribes can develop themselves out of small hunting tribes. On this account they report that they see the Dravidians mainly as a locally originated evolution stage of the Veddaish form (wir wiede holen es also, dass weidie Dravider in der Hauptsache für eine in loco entstandene Entwicklungstufe weddaisherformen ansehen).²

Thus instead of mystifying about the pre-Dravidians or the pre-Dravidian period, the Sarasins clearly say the pre-Dravidian period is *Veddaish* period. On this point, they further clearly say, that up to now they, according to their view, have made a difference between a *Veddaish* or pre-Dravidian epoch, the remnants of which are to be seen in the Veddahs and their relatives, and a *Dravido-Australian* period³ which to-day is represented by a large mass of Dravidian and partially also Kolarian-speaking tribes. The typical examples of this Dravido-Australian forms are the lower castes (Am typischsten finder wir

¹ P. 354.

² Sarasins, pp. 356-57.

³ The Sarasins accepted Caldwell's theory of the common origin of Dravidian and Australian languages, hence it seems the common period is contemplated.

Asia. Lately Von Eickstedt has found in the Veddahs the most primitive strain which is divided into two groups as the Gondiden and the Maliden.¹ According to him, the "Veddide" Race extends to Central India and beyond it. He says the Oraon (Kurukh) and Khand (Kuli) belong to the Gondide branch of the Veddide.²

But some criticisms have been made on the hypothesis of the Sarasins. Virchow did not see any similarity between the Veddah and Australian skulls. William Turner did not see any similarity between the Australian and the Dravidian skulls. Emil Schmidt, as said already, did not see any similarity between the two.³

Again Callamand has expressed himself decidedly against such a similarity and exclaims "quelle distance du noir de du' Inde a' l'Australian."⁴ So we are again here in a labyrinth! But two salient facts stand out conspicuously that in spite of the differences of the languages of all these races, they are all long-skulled and cymotrichous. Perhaps this much can be accepted that they are descended from the palaeolithic long-skulled race.

THE DRAVIDIAN QUESTION.

We have already seen that in connection with the Veddah question the Dravidian question turns up. It is said that the so-called "Dravidian race" is a discovery of Bishop Caldwell. As early as A.D. 1875 in his book on "A Comparative Grammar of the Dravidian or South Indian Family of Languages" Caldwell has said: "The essential unity of all the Dravidian dialects argues the unity of the race, inclusive of the lower castes on the whole. Therefore, the supposition that the lower

¹ Von Eickstedt, "Rassenkunde und Rassengeschichte der Menschheit," p. 184, 1923.

² Virchow, "Die Vedden Von Ceylon und ihre Beziehungen Zu den Nachbar-Stämmen," Abh kgl. Akad wissan de Berlin, 1887, Abh., p. 148.

³ Sir A. W. Turner, "Contributions to the Craniology of the People of the Empire of India," Pt. II, 1900, pp. xxxiv-xxxi,

⁴ Callamand in "Revue d' anthropologie," 2nd series, 1878, I, p. 625.

castes in the Dravidian provinces belong to a different race from the higher seems to be untenable. It seems safer to hold that all the indigenous tribes who were found by the Aryans in Southern India belonged substantially to one and the same race.”¹

As regards the physical type of the Dravidian he said, “South Indian is an Aryan in looks and rivals the Aryans in culture. It is only in his speech that he shows himself a member of the same race as the Gonds and a non-Aryan.² Here it should also be noted that as regards language Caldwell has said, “The dialects of Australia resemble the Dravidian.”³ This hypothesis of Caldwell gave Sarasin further proof of his hypothesis of common origin of the Dravidians and the Australians.⁴

Further he said : “ The high-caste Dravidians form at least four-fifths of the entire population of Southern India. Small bodies of men belonging to the Aryan or North Indian race might have migrated to the south and amalgamated with the Dravidian tribes...without any record of their migration surviving except perhaps in the lighter complexion of their descendants...Castes that have really a northern origin, as the Brahmans and a few offshoots of the Rajputs, are always recognized as such by the caste names they retain...It may be fairly concluded that the great bulk of the population was even then *Dravidian*, not Aryans.⁵

Thus, he said, the great bulk of the population is substantially Dravidian. But this was before the days of the study of South Indian physical anthropology. Since then investigations are taking place. Huxley and Flower have classed the so-called

¹ R. Caldwell, “A Comparative Grammar of the Dravidian or South Indian Family of Languages,” 1875, pp. 553-54.

² R. Caldwell, “A Comparative Grammar of the Dravidian or South Indian Family of Languages,” 1875, p. 572.

³ R. Caldwell, “A Comparative Grammar of the Dravidian or South Indian Family of Languages,” 1875, pp. 79-80.

⁴ *Vide* Sarasin.

⁵ Caldwell, pp. 558-79.

Dravidians as belonging to the Mediterranean race. On the other hand, as has been said before, Topinard has accepted a relationship between the Dravidians and the Australians, but Callamand, Emil Schmidt and Turner have expressed themselves decidedly against it. But just the same a Dravidian race has been created, and since Caldwell many attempts have been made to find affinities of the Dravidian languages either with the Turkish group of languages (old nomenclature Turanian) or with the Caucasic languages,¹ or even with the ancient Etruscan² language! Finally comes the Linguistic Survey of India edited by G. A. Grierson. It says; "With regard to the Dravidian languages the attempt to connect them with other linguistic families outside India is now generally recognised as a failure, and we must still consider them as an isolated family."³ Thus attempts to connect the Dravidian languages to an outside family of languages have failed. But the question of the so-called Dravidian race is not settled thereby.

It has been said before that some of the German anthropologists deny the existence of a distinct Dravidian race. They think the Veddoid race, by receiving the blood of the Northern Indian immigrants, have introduced new racial elements amongst itself which go to show the difference between the lower castes and the upper castes. Regarding the infiltration of the North Indians which is to be found in the literature of the South, Mr. S. K. Aiyangar says: "The history of South India.. begins with the coming of the Aryans in the South . The coming of the Aryans therefore would be the coming of the Brahman as a settler in this remote and sequestered region of India...In early

¹ Schuener, "Alt Dravidisches :Eine Namenkundliche untersuchung;" G. W. Brown, in J. Amer. Oriental Soc., 50, 273.

² Sten Konow, "Etruscan and Dravidian," J. R. A. S., New Series, 1904, Vol. 36, pp. 49-50.

³ "Linguistic Survey of India," Vol. IV, "Munda and Dravidian Languages," 1902

Tamil literature...it means the northerner, with the northern culture."¹ The Vedas mentioned a class of peoples who on account of their anti-social acts used to run away to Dakshinapath (South). The Puranas are full of the stories of the settlements of the North Indians in the South and Pargiter gives a list of dynasties of those Brahmins (Brahma-rakshasas) who used to be the family priests of the southern peoples who in the Brahminical traditions have been named as "Rakshasas, Daityas"² etc.! Pargiter says, "the epithet of cruel Brahma-Rakshasas, was given to the Agastyas and Vaisvamitras because they were descended from the Brahmins who had allied themselves with Rakshasas."³

In any case the infiltration of the North-Indian element or elements in South India cannot be denied. This phenomenon may have made a difference in South Indian anthropology. Now let us see what the present-day investigators speak of this anthropology. The most important of the investigators so far is Mr. Thurston. In his anthropology of the Badagas and Irulas of the Nilgiri⁴ he gives the cephalic and nasal indices average of nineteen tribes and castes extending from the Brahmins to the Nilgiri hill tribes. The range of variation of his cephalic indices is from 77·7 (Badagas) to 77·5 (Koramas), i.e., from dolichocephalic to mesocephalic both are to be found here. The nasal indices range from 69·1 (Lambodis) to 95·1 (Paniyans), i.e. from leptorrhine to chamoerrhine all varieties are to be found amongst these subjects. As regards the nasal index Thurston's Lambadis, a non-Brahman caste, are leptorrhines while the Pattar Brahmins and those of the Madras city are mesorrhines (76·5-76·7), and the Paniyans, another non-Brahman caste, are chamoerrhines. In his other book entitled "Castes and Tribes of Southern India" he mentions that brachycephaly is to be met with in South India.

¹ S. K. Aiyangar, "Some Contributions of South India to Indian Culture," p. 1.

² F. E. Pargiter, "Ancient Indian Historical Tradition," pp. 241-42.

³ *Ibid.*

⁴ Thurston, "Madras Government Museum Bulletin," Vol. II, No. I, pp. 62-64.

Lastly, we come to Haddon who says : " The Dravidians are usually confounded with the Pre-dravidians. The name is..... employed to include peoples speaking Tamils, Malayalam, Canarese, Telugu and kindred languages.... Apart from language there is a general culture which is characteristic of these peoples, and after the elimination of the Pre-dravidians a racial type emerges with finer features than those of the aborigines and the conclusion seems evident that this was due to an immigrant people who reached India before 2000 B.C." ¹

But the question that arises here is whether the finer features are not due to the infiltration of the North Indian elements. What necessity is there to import immigrants from outside India in order to explain these finer features, when the finer-featured elements are to be found in the north ? This supposed immigrant people is named as the " Dravidians." Further, he says, " Speaking generally, certain groups in, and the higher castes of, South India exhibit what are taken to be the original Dravidian characters ; the lowest castes and the outcastes are predominantly Pre-dravidian and the intermediate castes show various degrees of mixture." ²

But here we beg to say that Risley has spoken of the Tamil Brahmins as a mixed caste, and they on the average given by Thurston are mesocephal-mesorrhines. All the castes (twenty) mentioned in Thurston's Bulletin, Vol. II, No. I, pp. 51-52, are dolichocephals with the exception of the Sheikh Muhammadans, Brahmins of Madras city, Kanarese Pariahs, Kongas and the Koramas, who are mesocephals (called by him as subdolichocephals using Broca's nomenclature). In this list of Mesocephaly the Brahmins, the lower castes and the outcastes are ranked together. Indeed the Pariahs (76.8), the Kongas (77.0), the Koramas (77.5) are comparatively more broad-skulled than the Brahmins (76.5). In nasal index of the Lambadis

¹ Haddon, pp. 107-111.

² Haddon, pp. 107-111.

belonging to a non-Brahman caste are the only leptorrhinian in the whole list, and the Kanarese Pariahs (75·9) are comparatively narrow-nosed than the Brahmans of Madras city (76·7)! Thus, here, neither can we accept Risley's dictum that the lower is the nasal index the higher is the status of the caste, nor can we accept Haddon's theory that after the elimination of the Pre-dravidians a racial type emerges with finer features than those of the aborigines. We have seen that the higher castes do not stand in superior position to the lower castes, hence by eliminating the chamoerrhins, if any one puts the mesorrhins and leptorrhins together and say here is a different racial element, then that artificiality will manufacture a study-room "race" without any data based on reality.

In this way, we don't see the data of the presence of a separate race named "Dravidian" who are now-a-days classed as the Mediterraneans. Thus Haddon says,¹ " Apart from the dark colour of the skin there are many points of resemblance between the Dravidians and Mediterranean peoples which point to an ancient connection between the two, perhaps due to a common origin.² Further, the Telugus, a Dravidian-speaking people, are mentioned by the Census reporter thus : "The Telugus, perhaps are the purest Mediterranean stock in India." Here a Dravidian-speaking people is clearly identified with the Mediterraneans. Here is a big assertion. Telugu is a language, and it is spoken by various castes with diverse features. Thus we are at a loss to understand who the Dravidians in South India are as there are peoples with various physical characteristics mixed up pell-mell together! So, we are driven back to Caldwell and to the Sarasin brothers, Emil Schmidt and others. In this matter also we are in a labyrinth !

To us Dravidian is essentially a language group. The different elements that are to be met with in South India, exist

¹ Haddon, pp. 107-11.

² Haddon, pp. 107-11.

in other parts of India as well. But in those parts they speak other languages than Dravidian.¹

Giuffrida-Ruggeri following Sergi sees close affinity of the Dravidians with the Ethiopians and he calls them. *Homo Indo-africanus Dravidicus*, as in Kotas, Badagas, Kurubas. But he holds that "they have really been a small number of invaders who have introduced their languages, and that not everywhere, since in the Munda-Kol zone more ancient languages have been preserved."²

Dolichoid-mesorrhine element is met with amongst the Veddah, the South-Indian castes and tribes and in other parts of India. Leptorrhiny is also to be met with on both sides of the Vindhya range. Hence to separate them and to create new races based on the divisions of nomenclatures is misleading. For this reason, we are driven to the conclusion that the theory of a "Dravidian" race is a myth. Lately, Von Eickstedt says that the nomenclature "Dravidian race" is an erroneous designation (irrtümrende Bezeichnung), it must be dropped at once (ganzfortgelassen werden).³

MEDITERRANEAN QUESTION.

Thus we see, the existence of a Dravidian race is untenable. But the dolichoid-mesorrhine element does exist in India. We have said before that this biotype is dominant in India. Is this the element that is becoming the fashion to call as "Mediterranean" in India? The prehistoric dolichocranial skulls found at Nal, at Bayana, and at Sialkot are now-a-days being linked with the skulls of similar indices found at Mesopotamia. Regarding

¹ Vide in this connection the remark of George Campbell in his "Ethnology of India" who said it is the language that changes, not the people while going from north to the south.

² V. Giuffrida-Ruggeri, "The First Outlines a Systematic Anthropology of Asia" (Tr. Chakladar) C. U Journ. Letters. Vol. V, 1921, p. 58.

³ Von. Eickstedt, op. cit., p. 154.

the ancient skulls found at Kish, Buxton reports¹ that the Kish type A• belongs to Eur-African type. The second type B "in many ways recall the type that we call Mediterranean." Thus what was long suspected by some has turned out to be the fact, that the basic race of Mesopotamia belonged to the Mediterranean group. And as regards India, the abovementioned writer says, "The basal population of India is as at Kish entirely long-headed, although there is certainly more than one group of long-heads. On the top of this basal population we have an admixture of roundheads as we have at Kish." Further, he accepts the division made in South India by Risley, *viz.*, Pre-dravidian and Dravidian, but "as these terms are unsatisfactory" he suggests the name Chersiots, (mainlanders) for the narrower-nosed peoples. His Chersiots then must be old Dravidians as he divides the Indian population into : (1) broad-nosed Proto-Indians (2) narrow nosed Chersiots and the tall narrow-nosed Indo-Afghans." All these he says belong to the dolichocephalic group of curly-haired peoples. Thus, in this matter, we come back to the Sarasins again! As regards the "Proto-Indians," whom he classes as Australoids, they are not to be found at Kish, but he reminds us that Huxley believed that traces of the Australoid type is to be found in Egypt as well.

In resumé, he says : "This stratum is in some places overlain by a second stratum. This second stratum is represented by a series of long-headed peoples, usually of small stature and narrow nose. •These people extend from the Mediterranean to India...On the other hand there does seem to be an essential similarity between the Chersiots and the people of Mesopotamia. There is a very marked difference in skin-colour, possibly due to environmental conditions, but as yet not fully explained."² But Buxton

¹ Dudley Buxton and Talbot Rice, "Report on the Human Remains found at Kish" in J. R. A. Inst. of G. B. and Ireland, Vol. LXI, 1931, pp. 69-91.

² If Persia and Beluchistan be the overland route to India from Mesopotamia then an enquiry into the anthropology of Persia collected by Daniloff will show that the Persians on the average are dolichoid-mesorrhines and of stature above medium size; as regards the

forgets that the "Dravidians are of average stature, and if his Chersiots have connection with the second-stratum race then how can this characteristic of the "Dravidians fit in his system?

Here we see, the former Dravidians have been christened Chersiots here and are classed as Mediterraneans because the Chersiots have Mesopotamian affinities. Thus it is clear to us that the old 'Dravidians' are the present-day "Mediterraneans of India." But in all these attempts to identify the so-called Dravidians with Sergi's "Mediterraneans" no comparative craniological studies have been made as yet. Can the comparative studies of some ancient skulls of the Mesopotamian and Indus valleys justify the racial affinities of present-day peoples of both the places? The similarity of nasal and cephalic indices do not prove much, and Sergi himself has said, "We cannot accept evidence of cephalic index when that evidence is contradicted by other important factors."¹ For this reason if the so called Dravidians = Chersiots = Mediterraneans = Mesopotamians = Eur-african variety of humanity do exist in India then the other characteristics must be identified as well. Buxton himself admits the marked difference in skin-colour, and what is there about other characteristics besides similarity of head and nasal indices?

As regards the Mediterraneans, they are characterised by Sergi thus : "of brown white variety, neither white nor negroid, but

tribes of Beluchistan, by making an analysis of Risley's data, I have shown that the Baloches of Murri and Bugti Hills are dolichoid-leptorrhines and of stature above average, the Pani Pathans are of the same characteristics, the Wanechi Pathans are dolichoid-leptorrhines, the Dehwaris (Iranians?), are brachycephal-mesorrhines, the Brahus of Sarwan are brachycephal-mesorrhines, the Brahui-kalandrani are brachycephal-leptorrhines, the Jats of Sibi are brachycephal-leptorrhines, the Mir Jats are brachyc-phal leptorrhines, and the Lasi group (Chutta, Sangur, Bandija) of Indian origin is predominantly brachycephal-leptorrhines.

Thus in Persia and in Beluchistan where dolichoid-leptorrhines and dolichoid-mesorrhines are present, peoples on the average are of medium size and of above the medium-sized stature. Moreover, brachycephal-leptorrhines are strongly represented. But nowhere in this stretch of overland route to India, the remnant of a long-headed and short-statured people have been discovered. So we are in the dark regarding the route of this race of second stratum.

¹ Sergi, pp. 199-209.

pure in the elements, body is well formed and proportioned, of medium stature (1·60 m.—1·70), nose is either leptorrhin or mesorrhin, the face of oval and ellipsoid contour then the cranial forms will fall into four characteristics, each with a series of variations."¹ Thus it is clear, if we are to identify a race as belonging to the Mediterranean group then it must follow the canons laid down by Sergi. Do the Chesiots of Buxton fit with the canons of Sergi? Again, which are Buxton's long-headed peoples—usually of small stature and narrower nose—in India? Lately, von Eickstedt speaks of the Indians as Eastern Mediterraneans.²

It seems the term "Mediterranean" is being glibly used in India. We must make a thorough comparative study before we apply a well defined term to a known group of people. It is not yet the time to use it unreservedly in India. Rather we would say that dolichoid-mesorrhin, and dolichoid-leptorrhin biotypes are to be found in India, and they have affinities in the countries lying beyond the western border of India. Also in the Mediterranean basin the dolichoid-mesorrhin element is to be found as well. But to identify all of them with Sergi's small-statured (Pygmy) Mediterraneans on the strength of identity of some head-indices seems to us to go beyond the mark.

Also the designation of Eastern Mediterranean does not mean much. We do not get a clear idea of its characteristics. A vague word gives the same ambiguity as before!

¹ Sergi, pp. 252-257.

² Recently Eickstedt has coined new nomenclature regarding the Indians. As has been said before, he objects to the term "Dravidian," and speaks of East Mediterranean (ost mediterraniden) or better Indian (Indiden) race. This 'Indiden' he again divides into (1) North Indians (Nordindiden) and (2) real Indians (eigentlichen oder grazil Indiden) of Doab, Hindustan, Deccan. Then he speaks of the Veddiden (Gondiden and Maliden), and again of Melaniden or Indo-melanoid race. These are of deep dark brown skin-colour. In other characteristics they are "Europid." These group types are to be found amongst the Tamils and different aboriginal tribes of Behar and Orissa.

AMENOID QUESTION.

It is a recent discovery in Indian anthropology that affinities of *Homo Alpinus* is to be found in India. Since Ujfalvy measured the Galtchas¹ and Lappouge found in the brachycephal-leptorrhins of the Pamirs the affinities of the *Homo Alpinus* of Europe, it has clearly been proved that this biotype is to be found in strong numbers in western Asia. And as the majority of the Armenians are of these characteristics, von Luschan has named the Asiatic affinities of the Alpine race as "Armenoid."² The same Alpine race both in Europe and in Asia has been named by Sergi as the "Eurasian species" with definite skull-forms, and not reducible to Eurafrican forms.³ He supposes it to have its cradle in Asia.

The credit of the discovery of this biotype in India is due to Rai Bahadur Ramaprasad Chanda who first pointed out that brachycephaly of some of the Indians mentioned by Risley is not due to Mongolian blood but due to the presence of the Alpine element in India.⁴ Since then the existence of this biotype has been accepted by the investigators.

Since the relics of the Indus Valley civilization has been discovered at Mohenjodaro and at Harappa, a new light has been thrown on the Indian anthropology. In the skulls found at those places Drs. Sewell and Guha have discovered the Alpine type.⁵ As according to Sir John Marshall the Indus Valley civilization preceded the Vedic age,⁶ the presence of the Alpines in India before the advent of the Indo-Aryans is tentatively accepted by the savants. But it is a big question. Sergi thinks the

¹ C. E. De Ujfalvy, "Le Kohistan, Le Ferghannah kouldja," Paris, 1878. "Les Aryens du nord et ausud del' Hindoukouch," 1896, p. 25.

² Von Luschan, "Races of Western Asia," Huxley Memorial Lectures.

³ Sergi, "The Mediterranean Race," pp. 262-65.

⁴ R. C. Chanda, "Indo-Aryans."

⁵ Sir J. Marshall, "Mohenjo-daro and Indus Valley Civilization," p. 92.

⁶ *Ibid.*, p. 192.

Eurasian Alpines were the carriers of Indo-European languages in Europe, as he said, "I am convinced that this Eurasian species has yielded those population called Aryans,"¹ and the great historian Edward Meyer said, "the Aryan tribes observed the cremation system, and this system slowly came into Europe in the Bronze period." It can be accepted that perhaps the system was introduced by the Indo-Germans in Europe. The migration of the Scythian, Sarmatian, and Iranian tribes had been from the east to the west. This does not speak in favour of a European home of the Aryans and hence of the Indo-Germans. There are also proofs which show that the Aryans did not originate directly in Europe.² Then speaking about the then newly discovered language of the Yue-chi, which belonged to the Centum-group (west-European) of Indo-European languages, he further said, "Vielmehr hat die älteste Hypothese, welche die Indo-Germanen aus Asien kommen lässt, durch diese Entdeckung von neuem mehr Gewicht gewonnen" (With this discovery, the old hypothesis which spoke of the Indo-Germans coming out of Asia, got more weight).³

Again, Feist speaking from the philological standpoint says, "The cradle of the Indo-Germans is to be sought in central or west Asia (vorder-asia)."⁴ Thus the question is not yet settled about the original carriers of the Indo-European or Aryan language; it is yet a debatable question whether the broad-skulled leptorrhines of Asia or the long-skulled-leptorrhines of north Europe were the original speakers of the Indo-Germanic language. Here in the Indus valley a broad-skulled-leptorrhine element has been found which the investigators speak of having affinities with the so-called Alpine race. And the same element is to be found in present-day India.

¹ Sergi, pp. 262-65.

² E. Meyer, "Geschichte des Altertums," pp. 864-90.

³ E. Meyer, "Geschichte des Altertums," p. 893.

⁴ S. Feist, "Indo-Germanen und Germanen," p. 109, Halle, verlag von Max Niemeyer, 1924.

Naturally, it should be accepted that the brachycephalic-leptorrhin biotype is not a stranger in India. But we see that one of the investigators of the Indus Valley skull divides the Alpine race into an original one and the "Armenoid" subdivision of it. The investigators of the Mohenjodaro skulls, speaking about their type No. IV, say, "It seems probable that all four skulls of this group belonged to the Alpine race, but beyond this it is impossible to go, and we are not in a position to determine to which branch of the Alpines they may have belonged." Thus the presence of the "Alpine" race in Mohenjodaro is a probability with the investigators. This probability of theirs is based on the following grounds. Skull No. 14 belonging to a child is brachycephalic ; the only skull on which "they have been able to take definite measurements" is No. 8, and "even in this case the skull was badly damaged." "No. 13 is the skull of a female, which lay close to No. 14, the brachycephalic child ; this skull was very badly damaged and they say, "so far as we could judge, the skull must have been at least mesocranial, and may have been brachycranial, though not so markedly so as skull No. 14....skull No. 20...when it was removed for examination was in a bad, very bad state of preservation. ..As a result, it is impossible to arrive at any definite conclusion regarding the original shape of the skull, but we are of opinion that it was in all probability brachycranial."

Thus it seems, the theory of an Alpine type in the Mohenjodaro remains, is based only on probability. The only skull on which they say they have been able to take definite measurements is No. 8. But that skull according to their investigation "has undergone considerable warping and damage....The frontal region near the upper and inner angle of the left orbit has been forced outwards and the glabella has also been driven outwards... The posterior region of the skull has been badly broken....From this it will be clear that it is not possible to arrive at any very definite conclusion regarding the racial affinities of the individual to whom it belonged." As regards the skull No. 20, the whole

of the left side of the skull, excepting the mastoid and the frontal region is absent...the whole of the parietal and most of the supra-occipital regions are missing."

This is the data on which the probability of the existence of the Alpine race in Indus Valley is built up, and to the laymen it has become an established truth! But the following facts strike in the mind of the student of anthropology : (1) How can the cephalic measurements of the skull of a child be used at all as evidence, as the skull of a child is subject to further growth.¹ Of course the investigators do not lay any stress on it. (2) Skull No. 8 is so badly broken that maximum length cannot be taken. Yet it is the only skull on which the investigators have been able to take definite measurements. (3) Skull No. 13 was very badly damaged and the investigators only opined that it must have been at least mesocranial and may have been brachycranial, though not so marked as skull No. 14 which was of a child! It seems this judgment is based on the supposition that the individual of this skull who was a female was the mother of No. 14. Hence "it is to be expected that the child would exhibit a greater degree of brachycephaly." So, here is only a supposition based on no concrete fact. (4) As regards skull No. 20, apart from other missing parts, most of the supra-occipital region is missing. It seems the measurement has been taken from the reconstructed skull as it is evident in the photo given in the report. But, when most of the supra-occipital region is missing how can the measurement of the maximum length be taken, and when it is taken on a reconstructed substitute, how can that measurement be taken as valid to establish any theory ?

It seems to us, that in order to be scientifically accurate these measurements could not be used as proper data. There may be supposition and probability, but we see there is no accurate scientific data to justify the statement that the Alpine racial type was present in the Indus civilization of Mohenjodaro period.

¹ Martin, " Lehrbuch der Anthropologie," Vol. II, p. 700.

Mr. A. K. Sur, while criticising the conclusions arrived at by Drs. Sewell and Guha in his article entitled "Who were the Authors of Mohenjodaro Culture?" in "Indian Culture," Vol. 3, 1933, says: "We have very meagre or practically no conclusive evidence for inferring a Mongoloid non-Alpine type at Mohenjodaro." As regards the other two types he agrees with Dorothy Mackay (Annual Report of the Smithsonian Inst., 1932, p. 436).

Marshall describing the report of the investigators of the Indus Valley skulls says: "Of the fourth, the Alpine type, there is only one specimen, namely the skull of a child, but though this is the only skull which is unquestionably brachycranial, Sewell and Guha consider it probable that three other specimens may belong to the Alpine group."¹ Then he further says, "The same remark applies also to the skulls from Harappa...In Sewell's opinion they correspond with the brachycephalic type from Kish and belong to the Alpine race, possibly to the Armenoid subdivision of it."²

Here, we get a new term 'the Armenoid subdivision of the Alpine race.' Indeed Dr. Buxton, the investigator of the Kish skulls, speaks of the third type with a flattened back as belonging to the 'Armenoid race.'³ Again the Indian Census reporter of 1931 says, "The Eurasian Alpine type however is not responsible for non-Mongolian brachycephaly in India. The Armenoid type of head, characterized by a very steep and high but flattened occiput and described as "hypsicephalic," occurs frequently in India which can be noticeable to a watchful eye. This type is probably a specialized offshoot from the standard Alpine stock. While typical of Armenia and Anatolia, it is generally speaking still to be found sporadically all over S. E. Europe, Asia Minor and Mesopotamia. In a type modified by hybridization, it is

¹ Sir J. Marshall, "Mohenjo-Daro and the Indus Civilization," pp. 107-108.

² Sir J. Marshall, p. 109.

³ Dudley Buxton and T. Rice, J.R.A. Inst. of G. B., and Ireland, Vol. LXI, p. 74.

" common enough in India, but does not seem to be confined to any particular caste though perhaps more often noticeable among Brahmins and Banias than among others, and is most common in Dravidian-speaking India and in the upland valleys of East Punjab and the United Provinces." Thus we see, the Census reporter makes also the same distinction. Indeed Sergi speaks of different forms of neolithic brachycephalic skulls¹ and " these forms are varieties of an anthropological species which must be regarded as arising in Asia...I term it the Eurasian species." But von Luschan who is responsible for the coinage of the term " Armenoid " as corresponding to the " Alpine in Asia "² and others did not mention about a distinction between the European Alpines and the Asiatic Armenoids.

In Switzerland the so-called " Disitis type " is West Asiatic, i.e., Armenoid type! It is said that high up on the Alps in the Graubünden Canton of Switzerland, the cattle is of the same type as that of Asia Minor and the so-called " Alpine type " is to be found there in a pure state. (This gives rise to the supposition of an immigration from Anatolia in Neolithic period.) According to Ujfalvy the Pamir people look similar with the Savoyards. For this reason the former was called by the discoverer as " Savoyards attardés " ! And this West Asiatic Armenoid or Alpine type has been found by Hölder to be one of the four types in his examination of " Weinhaus Schädel." Thus we see, so long nobody has made any distinction between the brachycephalic-leptorrhines and their affinities of Asia. But as the above-mentioned investigators of Indian anthropology have made a distinction between the " Armenoid type " and the " standard Alpine type " the case must be thoroughly investigated and a comparative craniometric study should be made.

But as regards the hypothesis of the Census reporter that the Armenoid type is more often noticeable among the Brahmins and

¹ Sergi, pp. 262-65.

² F. Von Luschan, " Rassen, Sprachen and Völker."

Banias than among others, I beg to draw the attention of the reader again to my analysis of Risley's data in my article on "Das Indische Kasten System." and to see that brachycephalic-leptorrhiny is conspicuous by its absence in the Khatri and Arora castes of the Punjab (mercantile castes though claiming Kshatriya descent) and with the Khatri also the Bania (typical mercantile caste claiming descent from the ancient Vaishya caste) castes of the U. P.; again it is absent in the Brahman caste of the United Provinces, but it is found in a slight degree with the Brahmins of Behar and more so with the Brahmins of Bengal. But to say that it is less noticeable among others especially in Bengal is to go beyond the mark. In my further analysis of some of the Bengal castes in the same article I have found out that if the Brahmins have 13·0% of the element in question, the Kayasthas (a non-Brahman and non-Bania caste) have 17%, and the untouchable Chandals (Namasudras) have 11·94% of the same element. But this analysis is made from the old data of Risley ; naturally we will expect more accurate result from more up-to-date and absolute data. For this reason we are looking forward to the publication of the data of the Census of 1931.

MONGOLIAN QUESTION.

Along with the presence of the Armenoid biotype comes the question of the presence of the Mongolian type. The presence of an East-Asiatic racial element is not to be denied in the Himalayan regions and in the North-Eastern mountains. The investigators of the skulls of Indus Valley civilization have found out a skull amongst the collection which they say is similar to a Naga's (dwelling on the hills between the North-Eastern province of Assam and Burma) and they say "close correspondence leaves no room for doubt regarding the racial origin of the individual.¹ This type they name as the "Mongolian branch of the Alpine stock."

¹ "Mohenjo-daro and Indus Valley Civilization," Vol. II, p. 642.

Here we are at a loss to understand the nomenclature, as it is a new classification. Is it borrowed from Dixon who speaks of the Palae-alpine type and, as mentioned before, has made the "Mongoloid" as one of the forms of the same.¹ But, as we understand his Palaeo-alpines are not the same as his Alpines. Scientists from the time of the great Linneus are making new classifications of mankind, putting them into new phylum, genera and species, and coining new nomenclatures. But that does not bring us nearer to clearer certitude than before! The only certitude that can be understood clearly is the definite physical characteristics.² Any way, as the investigators hold the skull in question to be similar to a Naga skull from the East, we are to understand it as a so-called "Mongolian" skull and of East-Asiatic affinity.

But the discovery of a stray skull does not speak much. The presence of such an element is evident in the mountainous regions of the North and the North-East, hence the skull in question may belong to an wanderer from abroad.

In order to find out the Mongolian branch of the Alpine stock we will have to refer to Dixon again who says, "For the time being, I shall simply beg the question and refer to the short, Negroid, brachycephalic peoples as the Negrito branch of the Palae-Alpine type...that they were present already in Neolithic times in Further India and perhaps in India itself, seem very probable."³ Here Dixon speaks of the probable presence of the Negrito branch of his Palae-alpine type in Neolithic India, and not that of the 'Mongoloid' branch of the same. Hence the presence of the Mongolian element in prehistoric India cannot be ascertained from Dixon's hypothesis. Nor does Haddon's saying that "There is something in the facial appearance of many Kolars.....and among some (Munda etc.) there is often

¹ Dixon, pp. 244-45.

² See Luschütz's "Sprachen, Rassen und Völker" in connection with new classifications.

³ Dixon, pp. 244-45.

a reminiscence of Mongoloid traits" ¹ clear our query as it is very vague.

But as stated in the beginning, the Census report of Bengal, 1921, has brought out the fact of "Mongolian fleck" as a proof of a trace of Mongolian blood in the population of India, and it cites the case of the Varendra Brahmans of North Bengal. The Census report of India, 1911, also speaks of the appearance of blue spots amongst the peoples of different parts of India. But this phenomenon is no longer regarded as the sign of "Mongolian affinity" in a given people. The "Mongolian patch" exists in some European races as well; it appears in the Germans even! Gates says "the significance of the fleck as a racial diagnostic character is regarded as doubtful." But more clear is Martin who says this "nicht mehr als ein ausschliessliches charakteristicum der Mongoloiden aussehen werden" (can no longer be regarded as special characteristic of the Mongoloids).

Hence the presence of 'Mongolian spot' in some Indian child can no longer be regarded as a proof of the Mongolian strain in the Indian people. Thus we see the presence of the brachycephalic mesorrhine East-Asiatic racial element, commonly called "Mongolian" in inner India, is yet to be clearly demonstrated.

NORDIC QUESTION.

The next question, and culturally the most important question, that turns up is the "Aryan" question. This question has been renamed by the Pan-Germanists as the "Nordic" question. Since the discoveries by Max Müller of the similarity of the Sanskrit language with that of many European languages which made him call all these as Aryan languages, and since comparative study of Indo-European languages by Bopp proving the unity of Sanskrit language with that of the European ones, the

¹ Haddon, p. 108.

theory of an Aryan race which was the progenitor of all the Indo-European-speaking peoples got hold of the mind of men. • But on account of various criticisms, Max Müller later had to say that by 'Aryan' he meant a language and not a race! But later developments in Germanic-speaking countries made the word 'Aryan' as the centre of political controversy, and to-day in the same countries the word has got a distinct political connotation!

"Arya" has been the national name of the Indians of old days. To them an "Arya" meant noble. Both the Brahmins and the Buddhists used to call their religions "Aryan path" and the system opposed to theirs was denounced as that of an "Anārya." But since the European philologists have taken up the word "Arya," racial meaning has been attached to it, and national jealousies gave rise to acrimonious discussions, and all these have tended to give a political connotation to the word "Aryan"! ¹ Volumes can be written on the Aryan theory, but this discussion is extraneous to our subject here. The present-day philologists have agreed that the word "Aryan" is to be used to denote the Indians and the Persians (Aryas and Airyas) and the word "Indo-European" to be applied to the languages of Asia and Europe having a common origin. But German patriotism prefers to call it the "Indo-German" group of languages.

Regarding the people who spoke the original "Aryan" or "Indo-German" language, many of the North European savants, and particularly among them the Germans, see in them the original inhabitants of North Europe. They say as the dolichocephalic-leptorrhin-tall blond race of men are to be found in North Europe from time immemorial and as this type of men speak Germanic languages, the Aryan, or as they call it, the "Indo-Germanic languages," must have originated in this region.

¹ The reader can find some reference to this discussion in the chapter on "Aryan Controversy" in Ripley's "Races of Europe."

Further they say, the Satam-group of Indo-European languages is to be found distributed from East Europe eastwards to India ; and these, they say, are derived from the original centum group of Indo-European languages which are spoken by the West European peoples. This difference, they hold, is due to the shifting of the consonants according to Grimm's law which is only possible by the change in the tongue incurred by the Centum-speaking Nordic peoples by mixing with peoples of different racial elements in their migrations eastward. Thus in their migration eastward the Nordic and Indo-European peoples have not only modified their tongues but also their physical characteristics. Thus the dolichocephalic-leptorrhin-tall blue-eyed light-haired variety of men has been modified by hybridization into the dark Indo-Aryan of Risley or Indo-Afghan of Deniker.¹

The theory of the Nordic affinity of the Indo-Europeans has become an *idée fixe* with the German scholars. Penka saw Aryans in the Neanderthal race.² Much saw Aryans in the race identities with the Megalithic culture of Europe,³ and opined that the ancient home of the Indo-Europeans or Aryans was in the Baltic region. Some opined it to have been North Germany, some in Sweden and Prof. Wilser found it to have been in Greenland. But the present-day anthropologists, who take a saner view, regard the Nordics as a subdivision of the Cromagnon race.⁴

Later various attempts have been made to find in the Achaemenid⁵ emperors of Persia and in the ancient Hindu kings the descendants of the Nordic immigrants to Asia ! Thus

¹ Vide discussions on the subject in Eickstedt's "Rassen Element der Sikh" and by Eugen Fischer in "Human Heredity."

² Penka, "Der Herkunft der Arier."

³ M. Much, "Die Heimat der Indo-Germanen in Lichte der Urgeschichtlichen Forschungen," 1901.

⁴ F. Pandler, "Cromagnon Studien" in Anthropos, Heft. 8, 4. May, Aug., 1917, 1918.

⁵ T. Arndt, "Germanische Völkerwellen und ihre Bedeutung in der Bevölkerungs geschichte Europas," 1917.

the Nordic cry became an exposition of "Germanism." But as Sergi has said in this matter, "sentiment dies hard." This is attested in the attempt of some who tried to prove that the Germans are the pre-Indo-Germans!

Regarding the metamorphosis of the Aryan theory the French writer Jean Finot has succinctly said, "The Aryan theory became Indo-European theory, the Indo-European theory became Indo-German theory, the Indo-German theory became German theory.¹ But this theory had its reaction and found an echo in "Celticism" of the French.²

Here it must be said that the "Nordic theory" is the common possession of all Germanic nations of Europe and America. Prof. Hayes says it arose in Germany out of political stress³ and Prof. Rapson⁴ says, it was instantaneously taken up by England and the United States of America. But after the world war we are hearing of a "Proto-Nordic race" in the steppe lands of South Russia and Central Asia from Haddon and of a "Caspian race" from Dixon. These races, according to these anthropologists, have developed into "Nordic" in North Europe, and this Caspian element has come down to India in ancient times.

This theory of a Nordic migration to India cannot be proved either from Indian literature or by anthropological investigations. It is a fact that a long-skulled narrow-nosed tall variety of men are to be found in the mountains of the North-Western frontier of India and in the plains below. Deniker named it as "Indo-Afghan," Risley as "Indo-Aryan." There cannot be any dispute about it. But the question is how far does this biotype extend itself in India. According to Risley and those who accept his views, this type is confined to the Punjab and Rajputana. But we think otherwise.

¹ Jean Finot, "L'agonie et Mort de Race."

² Vide Sergi, p. 20.

³ Hayes, "History of Modern Europe," Vol. II.

⁴ Repson, "Nationalism and Internationalism."

It has been said before that identity of index figures is not enough to establish racial unity ; also to turn out a race based on the averages derived from indices may prove to be a sound hypothesis, but it may be removed from stern real fact. For this reason, the averages derived from the indices cannot be the only criteria of characteristics of a given group of people, because the other elements, inferior in numbers, lie hidden in this arithmetical average.¹

For this reason, the hypothetic racial types based on averages which have been turned out by Risley and others cannot be the determined biotypes in India. The data on which these hypothetic races have been derived must be analysed and the different elements that are in them must be resolved into their components.

This being the case, a biometric² analysis of Risley's data will show that though the Punjabi Jat-Sikhs measured by Risley have 57·5% of dolichoid-leptorrhiny in them, they have 5% of dolichoid-chamoerrhiny in them as well! But the analysis of the data of his Khatri, the Arora, and the Chura castes show that they have dolichoid-mesorrhiny characteristics equally predominant in them. On the other hand, the Khatri have 1·6% of brachycephal-mesorrhiny, the Arora have 3·0% of the same element, and the Chura have 12·5% of the same.

Again, in the eastern province of Bengal, analysis shows that if all the Hindu castes have dolichoid-leptorrhiny as one of the component elements in them, though dolichoid-mesorrhiny is the dominant element in each of them, the Kayastha have 30·0% of dolichoid-leptorrhiny, 17·0 of brachycephal-leptorrhiny, the Brahman have 29·0% of dolichoid-leptorrhiny, 13·0 of brachycephal-leptorrhiny, the cultivating Sadgop have 22·9% dolichoid-leptorrhiny, 4·16 of brachycephal-leptorrhiny, the milkman

¹ B. N. Datta, "Das Indische Kasten System " in *Anthropos*, Bd. XXI, 1927.

² Sergi, "The Mediterranean race," p. 8. He says I meant by "Germanism" the theory which attempts to prove that the Germans are the primitive Aryans. .

Goalā caste have 19·5% of dolichoid-leptorrhiny, 4·0% of brachycephal-leptorrhiny, the cultivating Kaibarta have 11·0% of dolichoid-leptorrhiny, 2·0% of brachycephal-leptorrhiny, while the untouchable Chandāl (Namasudra) caste have 14·92% of dolichoid-leptorrhiny, 11·91% of brachycephal-leptorrhiny in them!

Further, in my paper entitled "Anthropological Notes on Some West-Bengal Castes" submitted in the Oriental Conference held at Lahore, in which I have given some physical measurements of 83 subjects taken by me, I have shown that, out of 83 subjects 16 are dolichoid-leptorrhin, 8 are brachycephal-leptorrhins. Of course here, as in the abovementioned data, the dolichoid-mesorrhins are in preponderance. Here, it should be said that, from the Brahmins to the Santals, representatives of various castes have been measured.

Again in my paper submitted to the Science Congress held at Madras in 1927 on "Anthropological Notes on Some Assam Castes" in which the somatic measurements of 91 subjects from various castes taken by me are given, I have shown that, out of 94 subjects, 34 are of dolichoid-leptorrhin characteristics, 20 are of dolichoid-mesorrhin characteristics, 26 are of brachycephal-leptorrhin characteristics, 12 are of brachycephal-mesorrhin characteristics, 2 are of brachycephal-chamoerrhin characteristics. Thus in the farthest North-eastern part of India, the long-skulled-leptorrhin type is in the majority! Further, the presence of dolichocephalic-leptorrhin and brachycephalic-leptorrhin elements in this remote corner of India is also attested by Haddon.¹ Again this element is also not unknown in South India as testified by Dixon when he says that with the Toda and the Nair "a dominance of Caspian-Mediterranean types" is to be found.² Eickstedt also speaks of North-Indian affinity of the Todas.³

¹ Haddon, "Races of Man."

² Dixon, p. 264.

³ Eickstedt, "Bassenkunde und Rassendiagnostik."

Thus it is seen that the long-skulled-narrow-nosed variety of man is not unknown to other parts of India. This biotype is not confined to a particular locality of India, at the same time dolichoid-mesorrhine biotype is also strongly represented in the Punjab! Rather it is predominant in many of the Hindu castes of the same province which are labelled as "Indo-Aryan" by Risley. Again, Dixon speaks of the presence of the Mediterranean element in the Punjab. Does he thereby mean the dolichoid-mesorrhines? Thus it is evident that to talk about a particular biotype inhabiting a particular area or that it is to be found only amongst some particular caste or castes is a mistake.

Any way, the presence of the dolichoid-leptorrhine biotype in India is assured. But the question that turns up now is whether this biotype came next in order of succession to the Eurasian Armenoid biotype or before it. The author of "Mohenjo-daro and Indus Valley Civilization" thinks that this biotype appeared on the Indian soil after the Armenoid one. The argument that is advanced on behalf of this theory is that in the remains of the Indus valley civilization no specimen of this biotype has been discovered, and further, the archaeological age of the layer of this civilization is anterior to the accepted age of the Vedic invasion. Hence this biotype, named Indo-Aryan, must have appeared later in history in India than the Armenoid element.

So far¹ this hypothesis holds the field. But some pertinent questions may be asked here. Can the presence of some stray skulls in two mounds situated over a wide extent of the land be the conclusive proof of the non-existence of a racial element? Marshall himself admits that as far as "history can be traced the people of Sindh and the Panjab had been a blend of many diverse elements and there is no reason for assuming that it was other than heterogeneous in the earlier age with which we are now concerned"²; hence the absence of any

¹ Dixon, p. 26 f.

² Sir J. Marshall, p. 109.

type of skulls other than discovered at the mounds may be an accident.¹ Hence on account of preliminary stage of archaeological discovery of prehistoric India we cannot build up a conclusion about anthropological reality, though it may be tentative and a "working hypothesis" with some. The absence of the dolicho-leptorrhin element in a prehistoric mound is no conclusive proof, as evidences are not lacking to show that the Armenoid type is to be found in the present-day population of the Punjab labelled Indo-Aryan.² The Census reporter of 1931 speaks of its presence in the upland valleys of East Punjab and the United Provinces. Further, amongst the Indian soldiers imprisoned in Germany, some anthropological measurements were taken by the German and Austrian anthropologists. Of the 76 Jat-Sikhs measured by Dr. Von Eickstedt, he has found several elements one of which appeared to have the characteristics of West-Asiatic type. Thus he says, "Die Zahlreichen iranischen Typen mit gebogener Nase könnte man vielleicht als Milieu-bedingte Extremvarianten der Vorder-asiaten aufpassen,, und im östlichen Punjab wären diese Leute dann unter unseren Sikh in letzter spurzufinden." (The numerous Iranian types with bent form of nose could be taken perhaps as extreme variants of the West Asiatics conditioned by environment).³ Also we found traces of Central Asiatic influence amongst these Jat-Sikhs.⁴ These elements he thought to have been introduced by foreign conquests in historical period.

This kind of element has been spoken by Eickstedt as "untypisch" (not typical) Sikh, and he asked the reader to compare the same type with the photo of an 'untypisch' Sikh

¹ Marshall speaks of the presence of a mesaticephalic medium-nosed skull in the jar burials discovered at Harappa. The investigators regard it as belonging to a different race from those so far discovered at Indus valley and Harappa.

² Weninger, "Die-Vorderasiat-Rasse" in Mitt. Geograph Gesa, Wien, 1921.

³ E. Von Eickstedt, "Rassen Elemente der Sikh" in Z. für Ethnologie, 1920-21.

⁴ Ibid, p. 366, Heft 415, p. 366.

from Lahore which has been collected by Weninger of Vienna in connection with the West Asiatic race.

Thus so far about the latest investigations. As regards Risley's data, in my analysis mentioned before I have shown that brachycephaly is not absent with the Punjab Hindus. With the Khatri brachycephal mesorrhiny is present with 1·6%, with the Arora with 3·0%, with the Chura with 12·5%!

Moreover, the subjects of this outcaste people measured by Risley have 1·25% of brachycephal leptorrhiny and of 1·25% of brachycephal chamoerrhiny amongst them. It is a strange thing that brachycephal leptorrhiny is to be found in a caste standing at the lowest stratum of the Hindu society in Punjab!

Thus the presence of a brachycephalic element in the Punjab cannot be denied. The reason of not finding it before lay in Risley's old-fashioned method of creating a hypothetic race on the basis of arithmetic averages !

The question of brachycephal mesorrhiny may trouble some. But I would like to draw attention of the reader to the fact that much noise has been made regarding the belated Savoyards—the Galtchas! The Iranian-speaking brachycephalic tribes of the Pamirs, *viz.*, the Galtchas, the Mastujis, the Sarikolis, the Wakis, the Faizabadis investigated by Ujfalvy and Aurel Stein show, according to the deductions of Joyce, that with the exception of the Faizabadis all are on the average mesorrhinic!¹ The Galtchas have 22·4% of leptorrhiny, 60·3% of mesorrhiny and 10·2% of chamoerrhiny! Thus the '*Homo Alpinus*' of Lapouge of the Pamirs are not predominantly leptorrhines, at least as far as the Galtchas are concerned. This may account for the brachycephal mesorrhiny of the Punjab castes. Eickstedt accepts the presence of Central-Asiatic influence in the Punjab as said before.

The question is when did this influence come? Eickstedt thinks that the influence of foreign invasion was felt only in the

¹ Joyce, J. Anth. Inst. Bk. 16. My analysis of Risley's data of the U. P. shows the presence of brachycephal-mesorrhiny in all castes save the Kewat.

cities and not in the flat land.¹ He investigated the Jat-Sikhs amongst the peasant population. But when the presence of brachycephaly is to be seen not only with the mercantile classes (Khatri and Arora) but is strongly represented in the outcasted Chura, and the Census Report of 1931 speaks of its presence not only with the priestly Brahmins and mercantile Banias but also in the upland valleys of East Punjab and the Gangetic valley of the United Provinces, the migration of this element anterior to the historical period seems to be not an impossibility.

The presence of brachycephal-mesorrhiny may lead many to suspect an East Asiatic affinity of these people. But Eickstedt suspects that the nasal indices given by Risley have been wrongly measured as he says, "Sonst sind auch beim Nasal index Risleys Mittelwerte nicht direkt unseren heutigen Vergleichbar, sondern bedürfen für Nordwest inder einer Reduktion von etwas 5 Einheiten" (The average nasal indices given by Risley cannot be directly compared with that of ours of the present day. It requires a reduction of 5 units in the case of the Indians of the North West).² If this be the case, then we would find more of leptorrhines in the Punjab, and if such a mistake has been made everywhere, then we will find more leptorrhines all over India !

Thus the absence of the dolichocephalic-leptorrhine element in the mounds of Mohenjo-daro and Indus Valley civilization cannot be taken as the final proof of its migration in a period later than that of Mohenjo-daro civilization, and at the same time the presence of brachycephalic West Asiatic element in the present-day Punjab population cannot be denied.

Naturally, the question of the time of migration of these elements comes up again. Which element migrated first in this region and who brought the Indo-European language to India is the question. Unless and until the seals discovered in the Indus valley mounds be deciphered we cannot know anything about the

¹ Eickstedt, p. 213

² Ibid, p. 865.

language of those ancient peoples. But as it is supposed by some that the brachycephalic Eurasiacs introduced the Indo-European language into Europe in the Neolithic period, then the so-called Alpine or Armenoid people must be the original carriers of the Aryan language.¹ It is natural then to conclude that these people have brought the same language to India as well. But when those who believe that the Nordic variety of the Eurafrican race was the original speakers of the Aryan speech and was responsible for spreading the Indo-European language over the rest of the world, they mix race with language; in that case they don't give an explanation of how a section of the original Eurafrican race came to possess the Aryan language while its Mediterranean branches did not possess the same! So long those of the occidental anthropologists who have interested themselves in Indian anthropology have worked with the hypothesis of a Nordic affinity of the Vedic Aryans. Naturally they hold the Nordics to be responsible for the introduction of the Sanskrit-Indo-European language in India. And as Sanskrit belongs to the Satem group of the same, this linguistic modification becomes a handy weapon in the hands of the Pan-Germanists to see a modification of the racial traits of the original Nordics in their wanderings towards the East. The practical proof of this theory is pointed out by them in the case of long skull, narrow nose and tall characteristics of the so-called Indo-Afghan racial element! The presence of a dolichocephalic-leptorrhine racial element in Northern India is brought out as proof of this wandering of the Nordics to the East as a conquering people, and the fight between the "Aryas" and the "Dasyus" in the Vedas has been cited as a fight between two races of different skin-colour and physical characteristics.

So far so good is this theory ; and the Indians are being spoon-fed with it ! But if the view that the broad-skulled narrow-

¹ The reader may recall the reports about Hittite and Mittani languages. The Mittani people spoke a language similar to Sanskrit, and Ed. Meyer and Hall call them Iranians.

nosed Alpines or the Armenoids or the Vorderasiatic element was responsible for the introduction of the Indo-European language from Asia to Europe be accepted, then it cannot be denied that the affinities of the same element spoke the same language in the East as well! Then it turns out that the progenitors of the Achaemenids in Persia and of the Vedic tribes of India were not responsible for the introduction of the Aryan languages in those countries. There must have been other elements who were accountable for this. Then would it not be the '*Homo Alpinus*' who would spread of the Aryan language here?

The presence of the so-called Alpine element in the Punjab so far ascertained from the existing physical data, seems to us to speak in favour of our contention. The original tribes that descended from the southern slope of the Hindu Kush to the Punjab plain were certainly not homogeneous in racial characteristics. It cannot be said that they were free from the influences of the Iranian strains that are still to be found in the Pamirs and in northern parts of present-day Afghanistan. When we remember the original similarity in language, religion and other matters between the Aryas of the Vedas and the Airyas of the Avesta, we cannot make a sharp ethnic distinction between the two in the dim past. Further, it is evident that brachycephaly is more prevalent with those peoples who speak the Satem group of Aryan languages.

If according to the Pan-Germanists the 'Indo-Afghans' of Deniker as the 'Indo-Aryans,' of Risley are the descendants of the Nordics hybridized on the Indian plain by mixing with a dark population, then how is it that they have not left any remnants on their way to India? Instead we find the affinities of '*Homo Alpinus*' on their way from Central Europe to the Pamirs.

The presence of the Aryan-speaking fair-complexioned brachycephalic belt in central and west Asia is inexplicable even to-day. The creation of another hypothetic Caspian or Proto-Nordic race in Central Asia cannot solve the Indian problem.

It seems the problem goes in a circle here as well, and until we disabuse our mind of this Pan-Germanic complex we shall not be able to solve the question.

Again, if the dolichocephalic-leptorrhines of the Punjab plains be the descendants of the Nordic or the Caspian race then how is it that no blond trait is discernible in their so-called descendants of northern India? The theory is advanced that persons with blond characteristics have been eliminated as these could not stand the climate. If that be the case, won't in accordance with 'Basterdierungslehre,' heterozygotes that would be left by splitting ancestral types reappear through atavism or by the phenomenon of "Entmischung" as termed by Luschan, so that proofs of blond traits can be detected in the population? But nobody has found any such traits as yet!

Eickstedt in his investigation of Sikhs has found one subject (No. 58) with light-coloured hair. Regarding this he asked whether this be not the result of the invasion of the northern barbarians known as Usuns. Also it may be, he said, due to European influence of the latest period!¹ But Dr. Eickstedt forgets that this light-coloured hair instead of re-appearing as an atavistic trait from the fabulous Usuns or from the modern Europeans, may come from the neighbouring Alpine element of the Pamirs as investigated by Aurel Stein.

Thus it is evident to us that instead of tracing the carriers of Sanskrit language from North Europe or their progenitors in the Caspian region, elements nearer at hand may be held to be responsible for it! It may be that instead of the brown-skinned dolichocephal-leptorrhines, the light-skinned brachycephal-leptorrhines are the carriers of the Aryan language in India. But the proof of all these contentions lies in further excavations and investigation.

¹ Eickstedt, p. 365.

MIGRATION IN HISTORICAL PERIOD.

So far we have discussed about all the possible racial elements that may have entered into the composition of the people of India. But as much talk is going on since the days of Colonel Tod that the Scythians, the Yue-chi and the Huns who invaded India from Central Asia in the historical period might be the forbears of many of the Indian castes now-a-days ranked as belonging to the second class of ancient Hindu social hierarchy, it behoves us to make an enquiry regarding the physical anthropology of those invaders.

The physical traces of those invaders have been obliterated from the world ; we can only surmise regarding them.

The Scythians are the nomadic peoples of Central Asia and South-East Russia. It has been found out that the language of the Scythians (Scoloti) of South Russia which Herodotus has mentioned is of Iranian affinity.¹ The Scythians of Central Asia named as Sacai by the Persians has been discovered to be Iranian-speaking peoples.² Finally, the Yue-chi spoke a language which seems to be of the Centum group of Indo-European languages!³ Thus, it has become clear that the Central Asiatic Scythians and the Yue-chis were Indo-European-speaking peoples.

As regards their somatic characteristics nothing definitely can be said. No human remains have been found which can be definitely said to be Scythic or Yue-chi. As far as the remains found in the so-called Scythic graves of South Russiago, Minns says : " But the rather scanty observations made hitherto tend to shew that there was considerable variety among individuals who used objects of defined Scythic types. The best known case is that of the five skulls found in Chertombyk and discussed by K. E. Von Baer. Of these two were short and two were

¹ "Encyclopaedia Britannica," Vol. 17, 1929, p 565.

² Leumann, "Über die einheimischen Sprachen Von Ost. Turkistan" in Morgenländische Zeitschrift, Vol. 61, 190.

³ S. Feist, "Indo-Germanen und Germanen," p 112.

long and one was intermediate and the data were not sufficiently exact to shew that either lords or servants were one or the other. So too some of the skulls illustrated by Count Bobrinskoy in *Sméla* slightly suggest Mongolian forms ; others are purely European " (Sm. II, pp. lxxvii-xxx). To this same conclusion came Prof. A. Bogdanov¹ who says that in Scythic tombs the skulls are mostly long though occasionally Mongoloid and notes a general tendency towards brachycephaly during the Scythic period.²

Then we come to the physical anthropology of the Yue-chi. Since the discovery of the Yue-chi civilization at Turfan (Chinese Turkestan) all speculations regarding the Turkish affinities of the Scythians and the Yue-chi have been set at rest. It has been found out that they were Aryan-speaking peoples and influenced by Buddhism from India. The pictures³ found along with other relics show the Yue-chi to be powerfully built, long-nosed, grey-eyed peoples with red beards ! In their face the combinations of long narrow nose with so-called Mongolian squint eyes are to be noticed. The type of Yue-chi face or the Scythian face as depicted in the coin of Kujalakadpishes is still to be met with amongst the Afghans of the North-west Frontier of India of to-day. Some skulls amounting to sixteen have been discovered along with those relics from Turfan. Of course it cannot be definitely said that these were Yue-chi skulls, but they have been discovered with the relics of the Yue-chi civilization.

Prof. Klaatsch of Breslau examined these skulls and reported : " Die reichen Schutze leidlicher Darstellung zeigen uns ihre Gesichtszüge, die offenbar einer Mischbevölkerung angehörenDie morphologische Analyse lässt unter dem Turfan material verschiedene Elemente erkennen, die teils ziemlich rein in die

¹ A. Bogdanov, " Quelle est la race la plus ancienne de la Russie centrale ? in congrès international d'Archéologie Pré'historique et d'Anthropologie II mee Session à Moscou," 1892, p. 5.

² S. H. Minns, " Scythians and Greeks," pp. 46-47, 1913.

³ All these relics are to be found at Museum Völkerkunde, Berlin.

Erschienung treten, teils in Mischung miteinander erkennbar sind...:..was mir von archäologischer Seite über die Vereinigung der Elemente zu einem Volke mitgeteilt wurde, findet in dem ausgesprochenen Mischcharakteren, die an der Mehrzahl der Turfan schädel sich nachweisen lassen, eine klare Bestätigung.' (The rich treasures of passionate representation show us in their faces that they belong to a mixed population...The morphological analysis of the Turfan material would recognize a different element, which appears partly in tolerably pure condition, partly mixed with each other...What is informed to me from the archaeological side on the union of the elements to a people, finds a clear corroboration in the clearly mixed characters that are to be found in the majority of the Turfan skulls).¹

Thus in our investigations of the Central Asiatic Indo-European-speaking nomads who have played some rôle in the history of Northern India in the early Christian period, we have found out that they were mixed peoples. Now, would it be possible to deduce new races and castes in India out of these mixed elements drawn together into a nomadic tribe ? Then the question comes can a nomadic tribe of fifty thousand to a hundred and fifty troopers² change the racial characteristics of its overwhelmingly numerically superior subject peoples ? Rather history says they become absorbed in the subject people ! The utmost that can be predicated is that, they leave traces of their somatic characteristics in the people with whom they merge. Moreover these Central Asiatic people settled for the most part in the regions situated in the Afghan borders.³ Hence it would not be reasonable to find races or castes formed by them in inner India ; they may leave their somatic traces in the individuals.

The abovementioned racial questions are the important ones that draw the attention of the anthropologists ; yet there is

¹ H. Klaastech, "Morphologische Studien Zur Rassen diagnostik Der Turfanschädel," Berlin, 1913, pp. 1-47.

² Vide O. Francke, "Zur Geschichte der Türkvölker."

³ According to some the Baltis show traces of these people.

another question that draw the attention of the philologists who tried to find a new racial element in India by their philological deductions. It is the "Mon-Khmer" question in India. But it seems the anthropologists are not enamoured of this race, and they don't speak about its presence in India. Yet when the question has been raised, and is still drawing the attention of the philologists we must investigate it as far as India is concerned.

MON-KHMER QUESTION.

The "Mon-Khmer" race is the discovery of Pater Schmidt of Vienna. Regarding it¹ Dr. Grierson said : "Pater Schmidt's former works had shown that there exists in Further India an important group of languages...which was neither Tibeto-Burman nor Sinitic, while on the other hand it was closely connected with Khasi spoken in central Assam...Dr. Konow has been able to show not only that the Munda languages are connected with Mon-Khmer, but that the former must once have extended much more widely over India than they do at the present day. Similarly, Pater Schmidt, working from the side of Further India, shows clearly that the bases of the Munda languages and the Mon-Khmer languages are identical."²

On the basis of this comparative study a hypothetic race has been deduced, the somatic characteristics of which are :—

- Skull—dolichocephalic or mesocephalic.
- Eyes—horizontal, not like narrow slits.
- Base of nose—wide.
- Skin—dark.
- Hair—more or less wavy.
- Stature—short or medium.

¹ Pater Schmidt, "Die Mon-Khmer-Völker, ein Bindeglied Zwischen völker Zentralasiens und Austronesians," Archiv für Anthropologie, New Folge, Bd. V, Heft 1-2, 1906.

² G. A. Grierson, I. R. A. S., Jan., 1906.

These are the physical characters of the speakers of the Austro-Asiatic languages.¹ But the above description reminds us of the "Dravidian" race of Risley who has clearly said that the Mundas though speaking the Mon-Khmer languages are of Dravidian physical characteristics.

On the other hand, Eickstedt speaks of a "Palae-mongolide" race that wandering in small groups in the South-eastern Asia in the pre-Aryan period, advanced even to India. In India they have left their traces in the Mundari-speaking Sora and Yuang, also in the Munda, Ho, Santal, etc. Also they have left their traces in numerous old-Dravidian groups of Gondian Race, *viz.*, the Oraon etc., with different 'Indian' local types and even the Veddahs of Ceylon are not free from their influence.²

Here it seems the "Palae-mongoliden" of Eickstedt cover partially the place of the Mon-Khmers of Pater Schmidt. Perhaps Eickstedt meant the Mon-Khmer but has given a new name. Schmidt deduces a race on philological basis, and demonstrates it in some of the present-day pre-Dravidian tribes of India. Eickstedt cites many of the same tribes as the basis for his race. Hence it seems both of them mean the same people. But none of them have given definite data for the deduction of their hypothetical races!

Further Sylvain Levi suggested a "pre-Aryan and pre-Dravidian" epoch in India. He said, The study of the proper names in Indo-Aryan cannot yield in many cases results so long as we ignore the importance of Austro-Asiatic contributions to the religion and civilization of ancient India.³

Regarding the physical characteristics of the Khmer people of Cambodia, Deniker⁴ says, "one can conjecture that the

¹ G. A. Grierson, I. R. A. S., Jan., pp. 187-89.

² Eickstedt, p. 214.

³ S. Levi, "Pre-Aryan and Pre-Dravidian in India" translated by P. Bagchi.

⁴ Deniker, p. 481.

Khmers are the issues of mixture of Malayas and of Khmers with the addition of Indian blood, at least in the higher classes of the society. Thus the peoples speaking the Mon-Khmer group of languages are varied in their anthropological characteristics. Hence no race can be built upon the basis of language similarity. We may talk of a Mon-Khmer group of languages, not of a race.

As regards pre-Aryan and pre-Dravidian influence, the question will be solved automatically when the questions discussed before have been solved.

At last we are at the end of our survey. We have seen that discrepancies exist regarding the reports and views of various anthropologists. These diverse reports and opposing opinions lead us to blind alleys. New nomenclatures and classifications, instead of conducting us out of the labyrinth, only confuse the student and frighten the layman. The Indian anthropological investigations are at present on the threshold of the science. Hence what is needed is more of accurate and systematic investigation and less of speculation. We have seen that different biotypes do exist in India. The desideratum is to make a comparative study before we fix their affinities with those of the outside world.

THE KHASIS

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INTRODUCTION.

The home of the Khasis is the district of the Khasia and Jaintia Hills. Speakers of the Khasi dialect are also found in the adjoining districts of Sylhet and Cachar.

Because of their linguistic affinity with the Austric-speaking peoples and matriarchate systems a study of the racial history of the Khasis is full of interest to the students of anthropology.

In the following pages an attempt has been made to study their racial history as far as is ascertainable from the somatological point of view.

The following measurements have been taken according to the modern methods of anthropometry—stature, head-length, head-breadth, head height, face-length, face-breadth, bigonial diameter, nose-length, nose-breadth, orbito-nasal diameter, and orbito-nasal arc and the following indices have been calculated from them—cephalic index, altitudinal index, facial index, zygomatico-mandibular index, nasal index, and orbito-nasal index. They have been studied according to the modern principles of Statistics and Biometry. Besides these, observations regarding the following characters were made—skin-colour, quantity, character and colour of hair and moustache and beard, quantity of eye-brow, direction and

colour of eye, height, breadth and retreat of forehead, development of supra-orbital ridges, character of nasion depression and nasal bridge, inclination of nasal septum, prominence and size of malars, thickness and eversion of the lip, grade of alveolar prognathism, form of the chin and the prominence of angles of lower jaw.

Further I beg to add that the series includes 132 subjects. I have to reject seven schedules, which appeared at the time of measurements, on cross-bred subjects and noted as such but whom we measured because we did not venture to annoy them by rejecting them then and there. I have also to reject eight more which were either incomplete or which appeared, on the face of them, as a result of mis-recording or mis-choice.

SPECIFICATION OF THE KHASIS.

From Table I it will be seen that the Khasis are a short-statured people with a high mesocephalic head, a mesoprosopic face and a mesorrhine nose, and in the height of the root of the nose above the level of the orbit, they are pro-opic. The head varies from long to medium and has a high vault. The face is variable with a frequency of mesoprosopics. The nose is medium and in the height of the root of the nose above the level of the orbit, they are pro-opic.

The hair on the head is of medium growth and straight and black and on the face it is scarce, straight and black. The eyebrow is scanty. The eyeslit is horizontal and the prevailing colour of the eye is light brown and that of the conjunctiva dirty or reddish yellow. The forehead is vertical and of medium height and breadth, and the supra-orbital ridges remain as traces. The nasion depression is shallow and the nasal bridge is moderately concave and the septum horizontal. The malars are moderately prominent and of small size. There is no alveolar prognathism. The lips are of medium thickness, the chin ordinary and the angle of the lower jaw medium."

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TABLE I.

Specification of the Khasis.

| | | | No. | P. c. |
|-------------------|---------------------|-------------|-----|-------|
| Stature | Pygmy | X—1299 | 0 | 0 |
| | Very short | 1800—1499 | 6 | 4·5 |
| | Short | 1500—1599 | 70 | 59·0 |
| | Below medium | 1600—1699 | 29 | 21·9 |
| | Medium | 1640—1669 | 17 | 12·9 |
| | Above medium | 1670—1699 | 7 | 5·3 |
| | Tall | 1700—1799 | 3 | 2·3 |
| | Very tall | 1800—1899 | 0 | 0 |
| | Giant | 2000—X | 0 | 0 |
| Cephalic Index | Dolichocephalic | X—75·9 | 39 | 29·5 |
| | Mesoccephalic | 76·0—80·9 | 66 | 50 |
| | Brachycephalic | 81·0—85·4 | 25 | 180·9 |
| | Hyperbrachycephalic | 85·5—X | 2 | 1·5 |
| Altitudinal Index | Chamaecephalic | X—57·6 | 8 | 2·3 |
| | Orthocephalic | 57·7—62·5 | 4 | 3·0 |
| | Hypsicephalic | 62·6—X | 125 | 94·7 |
| Facial Index | Hypereuryprosopic | X—78·9 | 19 | 14·4 |
| | Euryprosopic | 79·0—83·9 | 26 | 19·7 |
| | Mesoprosopic | 84·0—87·9 | 47 | 35·6 |
| | Leptoprosopic | 88·0—92·9 | 31 | 28·5 |
| | Hyperleptoprosopic | 93·0—X | 9 | 6·8 |
| Nasal Index | Hyperleptorrhine | X—54·9 | 0 | 0 |
| | Leptorrhine | 55·0—69·9 | 19 | 14·4 |
| | Mesorrhine | 70·0—84·9 | 98 | 74·2 |
| | Chamaerrhine | 85·0—99·9 | 15 | 11·5 |
| | Hyperchamaerrhine | 100·0—X | 0 | 0 |
| Orbitonasal Index | Platyopic | X—109·9 | 28 | 21·2 |
| | Meso-optic | 110·0—112·9 | 40 | 30·8 |
| | Pro-optic | 113·0—X | 64 | 48·5 |

NUMERICAL AND GRAPHICAL REPRESENTATION OF KHASIS.

The accompanying Table II gives the variability of the Khasis. It will be seen that the variability is never very great and is within the range of normal variation.

In Table III, which gives the variability of the head-length and head-breadth of races which are approved to be homogeneous,

it will be seen that the variability of the Khasis for these characters is practically the same except that it is slightly greater than that of the Ainos. May I then take the Khasis as homogeneous ? "

Again, by a reference to Tables IV-XX and diagrams I-XVII, it will be seen that the frequency distribution of the absolute measurements and indices are regular for all practical purposes. The slight irregularities of the bigonial diameter and orbitonasal arc might be attributed to the scantiness of the data, or is it not possibly due to miscegenation. The irregularities in other characters will be eliminated in the process of smoothing.

TABLE II.

Variability of the Different Characters of the Khasis.

| mm. | | m. | σ | v |
|---------------------------|-----|--------|--------------------|----------------|
| Stature | ... | St | 1584.43 \pm 3.43 | 3.69 \pm .15 |
| Head-length | ... | H.L. | 189.55 \pm .36 | 3.23 \pm .18 |
| Head-breadth | ... | H.B. | 147.65 \pm .34 | 3.86 \pm .16 |
| Head-height | ... | H.H. | 135.11 \pm .34 | 3.92 \pm .17 |
| Face-length | ... | F.L. | 114.47 \pm .37 | 5.57 \pm .28 |
| Face-breadth | ... | F.B. | 135.10 \pm .31 | 3.98 \pm .16 |
| Bigonial Diameter | ... | B.D. | 101.67 \pm .33 | 5.43 \pm .23 |
| Nose-length | ... | N.L. | 49.84 \pm .17 | 5.81 \pm .24 |
| Nose-breadth | ... | N.B. | 38.35 \pm .14 | 6.15 \pm .26 |
| Orbito-nasal Diameter | ... | O.N.D. | 102.16 \pm .40 | 6.67 \pm .28 |
| Orbito-nasal Arc | ... | O.N.A. | 115.62 \pm .46 | 6.82 \pm .28 |
| Cephalic Index | ... | C.I. | 77.81 \pm .02 | 4.72 \pm .20 |
| Altitudinal Index | ... | A.I. | 71.28 \pm .32 | 7.68 \pm .33 |
| Facial Index | ... | F.I. | 84.73 \pm .31 | 6.33 \pm .26 |
| Zygomaticomandibular Ind. | ... | Z.M.I. | 75.26 \pm .24 | 5.70 \pm .24 |
| Nasal Index | ... | N.I. | 76.75 \pm .38 | 8.58 \pm .36 |
| Orbito-nasal Index | ... | O.N.I. | 118.18 \pm .26 | 3.90 \pm .17 |

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TABLE III.

*Variability of the Head-length and the Head-breadth of the
Khasis compared with Homogeneous Series.¹*

| Race. | Head-length. | | Head-breadth. | |
|----------|--------------|-------|---------------|-------|
| | σ | v | σ | v |
| Khasi | 6.13 | 3.23 | 5.71 | 3.86 |
| Bavarian | 6.088 | 3.371 | 5.849 | 3.887 |
| Aino | 5.936 | 3.195 | 3.897 | 2.759 |
| French | 7.202 | 3.966 | 6.068 | 4.206 |
| English | 6.446 | 3.485 | 4.976 | 3.554 |

I might also add that it is not impossible that different racial elements may, by the process of miscegenation, ultimately produce a type with variability and frequency-distribution which might not be appreciably different from those of a homogeneous series.

From Table XXI it will be seen that the variability of the present series is smaller than that of Dixon's in respect of N. L., N. B. and N. I., and from that of Waddell's in respect of N.L. and N.I., and it is practically the same in respect of C.I. with Dixon's and of N.B. with Waddell's. For all other characters, the variability of the present series is greater than that of Dixon's and Waddell's although, as might be expected when the numbers² in each series are considered, that the variability in my series ought to have been less.

But it might be added that Dixon's measurements were taken on convicts, and as such it is doubtful how far they may represent the people from whom they are taken except in so far as a help to detect the racial elements in them.

¹ *Biometrika*, Vol. I, p. 424.

² Dixon's series consists of 25 subjects and Waddell's 70 subjects. I beg to add that from Waddell's series I have to reject a good many which seemed to be either a result of misprint or to be aberrant.

Again Waddell's measurements were taken before 1901, and he has not left any note as to the methods he adopted.

TABLE IV.

Frequency-distribution of Stature for the Khasis.

| Stature in mm. | No. | P.c. |
|----------------|------|------|
| 1425 | 2 | 1·5 |
| 1445 | 3 | 2·5 |
| 1475 | 7 | 5·8 |
| 1505 | 26·5 | 20·1 |
| 1535 | 18·5 | 14·0 |
| 1565 | 23·5 | 17·8 |
| 1595 | 25·5 | 19·8 |
| 1625 | 14 | 10·6 |
| 1655 | 8 | 6·1 |
| 1685 | 4 | 3·0 |

TABLE V.

Frequency-distribution of Head-lengths for the Khasis.

| Head-length in mm. | No. | P.c. | Head-length in mm. | No. | P.c. |
|--------------------|-----|------|--------------------|-----|------|
| 171- | 2 | 1·5 | 189- | 13 | 9·8 |
| 173- | 0 | 0 | 191- | 12 | 9·1 |
| 175- | 1 | .8 | 193- | 15 | 11·4 |
| 177- | 1 | .8 | 195- | 13 | 9·8 |
| 179- | 6 | 4·5 | 197- | 8 | 6·1 |
| 181- | 6 | 4·5 | 199- | 6 | 4·5 |
| 183- | 7 | 5·3 | 201- | 1 | .8 |
| 185- | 14 | 10·6 | 203- | 1 | .8 |
| 187- | 25 | 18·9 | 205- | 1 | .8 |

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TABLE VI.

Frequency-distribution of Head-breadths for the Khasis.

| Head-breadth in mm. | No. | P.c. | Head-breadth in mm. | No. | P.c. |
|---------------------|-----|------|---------------------|-----|------|
| 133- | 2 | 1·5 | 149- | 15 | 11·4 |
| 135- | 3 | 2·3 | 151- | 12 | 9·1 |
| 137- | 3 | 2·3 | 153- | 14 | 10·6 |
| 139- | 5 | 3·9 | 155- | 9 | 6·8 |
| 141- | 9 | 6·8 | 157- | 4 | 3·0 |
| 143- | 18 | 13·6 | 159- | 2 | 1·5 |
| 145- | 17 | 12·9 | 161- | 1 | .8 |
| 147- | 18 | 13·6 | | | |

TABLE VII.

Frequency-distribution of Head-heights for the Khasis.

| Head-height in mm. | No. | P.c. | Head-height in mm. | No. | P.c. |
|--------------------|-----|------|--------------------|-----|------|
| 101- | 2 | 1·5 | 129- | 16 | 12·1 |
| 105- | 1 | .8 | 133- | 27 | 20·4 |
| 109- | 0 | 0 | 137- | 19 | 14·4 |
| 113- | 3 | 2·3 | 141- | 23 | 17·4 |
| 117- | 2 | 1·5 | 145- | 11 | 8·3 |
| 121- | 4 | 3·0 | 149- | 8 | 2·8 |
| 125- | 17 | 12·9 | 153- | 4 | 3·0 |

TABLE VIII.

Frequency-distribution of Face-lengths for the Khasis.

| Face-length in mm. | No. | P.c. | Face-length in mm. | No. | P.c. |
|--------------------|-----|------|--------------------|-----|------|
| 97- | 1 | .8 | 17- | 21 | 15.9 |
| 99- | 0 | 0 | 119- | 13 | 9.8 |
| 101- | 2 | 1.5 | 121- | 8 | 6.1 |
| 103- | 5 | 3.9 | 123- | 9 | 6.8 |
| 105- | 7 | 5.3 | 125- | 2 | 1.5 |
| 107- | 8 | 6.1 | 127- | 3 | 2.3 |
| 109- | 6 | 4.5 | 129- | 2 | 1.5 |
| 111- | 20 | 15.1 | 131- | 0 | 0 |
| 113- | 11 | 8.8 | 133- | 0 | 0 |
| 115- | 13 | .8 | 135- | 1 | .8 |

TABLE IX.

Frequency-distribution of Face-breadths for the Khasis.

| Face-breadth in mm. | No. | P.c. | Face-breadth in mm. | No. | P.c. |
|---------------------|-----|------|---------------------|-----|------|
| 122- | 1 | .8 | 138- | 8 | 6.1 |
| 124- | 4 | 3.0 | 140- | 13 | 9.8 |
| 126- | 7 | 5.3 | 142- | 11 | 8.3 |
| 128- | 3 | 2.3 | 144- | 2 | 1.5 |
| 130- | 20 | 15.1 | 146- | 3 | 2.3 |
| 132- | 19 | 14.4 | 148- | 0 | 0 |
| 134- | 19 | 14.4 | 150- | 1 | .8 |
| 136- | 21 | 15.9 | | | |

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TABLE X.

Frequency-distribution of Bigonial Diameters for the Khasis.

| Bigonial Diameter in mm. | No. | P.c. | Bigonial Diameter in mm. | No.. | P.c |
|-----------------------------|-----|------|-----------------------------|------|------|
| 87- | 1 | .8 | 103- | 11 | 8.9 |
| 89- | 3 | 2.3 | 105- | 23 | 17.4 |
| 91- | 7 | 5.3 | 107- | 12 | 9.1 |
| 93- | 3 | 2.3 | 109- | 2 | 1.5 |
| 95- | 9 | 6.8 | 111- | 3 | 2.8 |
| 97- | 7 | .3 | 113- | | .8 |
| 99- | 19 | 14.4 | 115- | | 1.5 |
| 101- | 28 | 21.2 | 117- | 1 | .8 |

TABLE XI.

Frequency-distribution of Nose-lengths for the Khasis.

| Nose-length in mm. | No. | P.c. | Nose-length in mm. | | P.c. |
|--------------------|-----|------|--------------------|----|------|
| 41- | 1 | .8 | 51- | 36 | 27.8 |
| 43- | 5 | 3.8 | 53- | 11 | 8.2 |
| 45- | 14 | 10.6 | 55- | 7 | 5.3 |
| 47- | 28 | 21.2 | 57- | 1 | .8 |
| 49- | 27 | 20.4 | 59- | 2 | 1.5 |

TABLE XII.

Frequency-distribution of Nose-breadths for the Khasis.

| Nose-breadth in mm. | No. | P.c. | Nose-breadth in mm. | No. | P.c. |
|---------------------|-----|------|---------------------|-----|------|
| 33- | 1 | .8 | 40- | 15 | 11.4 |
| 34- | 4 | 3.0 | 41- | 6 | 4.5 |
| 35- | 9 | 6.8 | 42- | 13 | 9.8 |
| 36- | 18 | 13.6 | 43- | 4 | 3.0 |
| 37- | 18 | 13.6 | 44- | 0 | 0 |
| 38- | 22 | 16.6 | 45- | 1 | .8 |
| 39- | 21 | 15.9 | | | |

TABLE XIII.

Frequency-distribution of Orbito-nasal Diameters for the Khasis.

| Orbito-nasal Diameter in mm. | No. | P.c. | Orbito-nasal Diameter in mm. | No. | P.c. |
|------------------------------|-----|------|------------------------------|-----|------|
| 87— | 1 | .8 | 105— | 10 | 7.6 |
| 89— | 1 | .8 | 107— | 13 | 9.8 |
| 91— | 3 | 2.3 | 109— | 9 | 6.8 |
| 93— | 10 | 7.6 | 111— | 7 | 5.3 |
| 95— | 16 | 12.1 | 113— | 3 | 2.3 |
| 97— | 14 | 10.6 | 115— | 8 | 5.8 |
| 99— | 17 | 12.9 | 117— | 1 | .8 |
| 101— | 14 | 10.6 | 119— | 2 | 1.5 |
| 103— | 8 | 6.1 | | | |

TABLE XIV.

Frequency-distribution of Orbito-nasal Arcs for the Khasis.

| Orbito-nasal Arc. | No. | P.c. | Orbito-nasal Arc. | No. | P.c. |
|-------------------|-----|------|-------------------|-----|------|
| 99— | 1 | .8 | 119— | 12 | 9.1 |
| 101— | 2 | 1.3 | 121— | 10 | 7.6 |
| 103— | 5 | 3.9 | 123— | 8 | 2.8 |
| 105— | 10 | 7.6 | 125— | 13 | 9.8 |
| 107— | 5 | 3.9 | 127— | 4 | 3.0 |
| 109— | 18 | 13.6 | 129— | 4 | 3.0 |
| 111— | 13 | 9.8 | 131— | 2 | 1.5 |
| 113— | 9 | 6.8 | 133— | 0 | 0 |
| 115— | 15 | 11.4 | 135— | 2 | 1.5 |
| 117— | 4 | 3.0 | | | |

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TABLE XV.
Frequency-distribution of Cephalic Index for the Khasis.

| Cephalic Index. | No. | P.c. | Cephalic Index. | No. | P.c. |
|-----------------|-----|------|-----------------|-----|------|
| 69— | 8 | 9·8 | 79— | 28 | 17·4 |
| 71— | 9 | 6·8 | 81— | 17 | 12·9 |
| 73— | 16 | 12·1 | 83— | 7 | 5·3 |
| 75— | 21 | 15·9 | 85— | 0 | 0 |
| 77— | 94 | 26·7 | 87— | 2 | 1·5 |

TABLE XVI.
Frequency-distribution of Altitudinal Index for the Khasis.

| Altitudinal Index. | No. | P. c. | Altitudinal Index. | No. | P. c. |
|--------------------|-----|-------|--------------------|-----|-------|
| 52— | 1 | ·8 | 70— | 18 | 13·6 |
| 54— | 1 | ·8 | 72— | 23 | 16·6 |
| 56— | 1 | ·8 | 74— | 18 | 13·6 |
| 58— | 2 | 1·5 | 76— | 15 | 11·4 |
| 60— | 1 | ·8 | 78— | 7 | 5·3 |
| 62— | 5 | 8·9 | 80— | 8 | 2·8 |
| 64— | 7 | 5·3 | 82— | 1 | ·8 |
| 66— | 16 | 12·1 | 84— | 1 | ·8 |
| 68— | 13 | 9·8 | | | |

TABLE XVII.
Frequency-distribution of Facial Index for the Khasis.

| Facial Index. | No. | P. c. | Facial Index. | No. | P. c. |
|---------------|------|-------|---------------|------|-------|
| 72— | 2 | 1·5 | 88— | 18·5 | 14·0 |
| 74— | 2 | 1·5 | 90— | 11·5 | 8·7 |
| 76— | 9 | 6·8 | 92— | 8 | 2·8 |
| 78— | 5·5 | 4·2 | 94— | 8 | 2·8 |
| 80— | 10·5 | 7·9 | 96— | 2 | 1·5 |
| 82— | 15 | 11·4 | 98— | 1·5 | 1·1 |
| 84— | 25 | 18·9 | 100— | 5 | ·4 |
| 86— | 28 | 17·4 | | | |

TABLE XVIII.

Frequency-distribution of Zygomatico-mandibular Index for the Khasis.

| Zygomatico-mandibular Index. | No. | P. c. | Zygomatico-mandibular Index | No. | P. c. |
|------------------------------|------|-------|-----------------------------|------|-------|
| 68— | 1 | .8 | 75— | 82·5 | 24·6 |
| 65— | 2 | 1·5 | 77— | 21 | 15·9 |
| 67— | 6 | 4·5 | 79— | 7 | 5·3 |
| 69— | 10 | 7·6 | 81— | 7 | 5·3 |
| 71— | 17 | 12·9 | 83— | 5 | 3·9 |
| 73— | 21·5 | 16·3 | 85— | 2 | 1·5 |

TABLE XIX.

Frequency-distribution of Nasal Index for the Khasis.

| Nasal Index. | No. | P.c. | Nasal Index. | No. | P.c. |
|--------------|------|------|--------------|------|------|
| 58— | 1 | .8 | 78— | 11·5 | 8·7 |
| 60— | 0 | 0 | 80— | 18·5 | 10·2 |
| 62— | 1 | .8 | 82— | 18·5 | 10·2 |
| 64— | 8 | 2·3 | 84— | 8 | 6·1 |
| 66— | 4·5 | 3·4 | 86— | 7 | 5·3 |
| 68— | 10·5 | 7·9 | 88— | 2 | 1·5 |
| 70— | 10·5 | 7·9 | 90— | 0 | 0 |
| 72— | 15·5 | 11·7 | 92— | 1 | .8 |
| 74— | 14 | 10·6 | 94— | 0 | 0 |
| 76— | 14·5 | 11·0 | 96— | 1 | .8 |

TABLE XX.
Frequency-distribution of Orbito-nasal Index for the Khasis.

| Orbito-nasal Index. | No. | P.c. | Orbito-nasal Index. | No. | P.c. |
|---------------------|-----|------|---------------------|-----|------|
| 100— | 1 | ·8 | 114— | 21 | 15·9 |
| 102— | 1 | ·8 | 116— | 14 | 10·6 |
| 104— | 2 | 1·5 | 118— | 12 | 9·1 |
| 106— | 10 | 7·6 | 120— | 5 | 3·8 |
| 108— | 14 | 10·6 | 122— | 0 | 0 |
| 110— | 25 | 18·9 | 124— | 0 | 0 |
| 112— | 26 | 19·7 | 126— | 1 | ·8 |

TABLE XXI.
Variability of the Khasis as measured by me compared with that of the Khasis as measured by other Authors.

| | m. | σ | ν | Dixon. ¹ | | | Waddell ² . | | |
|------|------------------|----------------|---------------|---------------------|----------------|-------|------------------------|----------------|-------|
| | | | | m. | σ | ν | m. | σ | ν |
| St. | 1584·43 ±8·48 | 58·51 ±2·44 | 3·69 ±1·15 | 1568·84 ±6·54 | 48·45 ±4·62 | 8·08 | 1570·87 ±3·97 | 49·26 ±2·81 | 8·14 |
| H.L. | 189·55 ±36 | 6·13 ±25 | 8·28 ±1·13 | 183·12 ±62 | 4·62 ±44 | 2·52 | 184·06 ±37 | 4·50 ±25 | 2·49 |
| H.B. | 147·68 ±84 | 5·71 ±24 | 3·86 ±16 | 143·36 ±60 | 4·42 ±42 | 3·08 | 143·43 ±35 | 4·39 ±25 | 8·06 |
| F.L. | 114·47 ±37 | 6·89 ±27 | 5·57 ±23 | 112·24 ±69 | 5·11 ±49 | 4·55 | | | |
| F.B. | 185·10 ±81 | 5·81 ±28 | 3·93 ±16 | 183·16 ±55 | 4·09 ±55 | 3·07 | | | |
| N.L. | 49·84 ±17 | 2·90 ±12 | 5·81 ±24 | 49·52 ±58 | 4·27 ±41 | 8·62 | 44·6 ±24 | 8·04 ±17 | 6·89 |
| N.B. | 88·35 ±14 | 2·36 ±10 | 6·15 ±26 | 88·76 ±62 | 4·62 ±44 | 11·91 | 89·48 ±18 | 2·29 ±13 | 5·96 |
| C.I. | 77·81 ±02 | 3·68 ±02 | 4·72 ±20 | 78·29 ±44 | 3·23 ±31 | 4·13 | 77·98 ±22 | 2·68 ±15 | 3·44 |
| F.I. | 84·73 ±31 | 5·36 ±22 | 6·93 ±26 | 84·29 ±49 | 3·55 ±34 | 4·21 | | | |
| N.L. | 76·96 ±88 | 6·53 ±27 | 8·48 ±35 | 78·27 ±100 | 7·44 ±71 | 9·51 | 86·08 ±61 | 7·63 ±43 | 8·86 |

¹ *Man in India*, 11, 1922, p. 1.

² *J.A.S.B.*, LXIX, Pt. III, 1901, p. 1.

COMPARISON WITH THE MATERIALS OF OTHER AUTHORS.

From Table XXI it will be seen that the mean stature in my series is greater than in Dixon's and Waddell's. It will be seen from Table XXII that the stature in this series varies from very short to tall with max. frequency (53%) at short stature, whereas in Dixon's and Waddell's series it varies from very short to medium, although in each case the maximum frequency is at short stature—in the present series 53%, in Dixon's 68% and in Waddell's 68.6%. But averages depending, as they do, on extreme items are often misleading and may sometimes give results which are nowhere warranted by the series. For this, the safest way of determining a type is by the maximum frequency. If we look to the maximum frequency, it will be seen that in each series, the maximum frequency (more than 50%) is bet. 1500-1599 mm. (i.e., short) and this also is revealed by the averages.

From Table XXII it will be seen that the Kbasis of the present series have bigger heads, both in length and breadth, than those of Dixon's and Waddell's series although the shape of the head remains practically the same as will be evident from the mean cephalic index in the three series.

In the shape of the face (length, breadth and index) there is practically no difference between the present series and Dixon's.

In the shape of the nose (length, breadth and index) there is a close agreement between this series and Dixon's, but Waddell's series differs in having a smaller nose-length and consequently a greater nasal index.

Thus it is seen that there is a close agreement between this series and Dixon's, the only difference being that Dixon's series has smaller heads.

Further analysing them into different groups on the basis of the combinations of cephalic and nasal indices I find results (vide Table XXIII) which are in close agreement with that of

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TABLE XXII.

| | | | | | Dixon. | | Waddell. | |
|----------------|---------------------|-----------|-----|------|--------|------|----------|------|
| | | | No. | P.c. | No. | P.c. | No. | P.c. |
| Stature | Very short | 1300-1499 | 6 | 4·5 | 2 | 8 | 2 | 1·9 |
| | Short | 1500-1699 | 70 | 53·0 | 17 | 68 | 48 | 68·6 |
| | Below medium | 1600-1639 | 29 | 21·9 | 5 | 20 | 16 | 22·9 |
| | Medium | 1640-1669 | 17 | 12·9 | 1 | 4 | 3 | 2·8 |
| | Above medium | 1670-1699 | 7 | 5·3 | | | 0 | |
| | Tall | 1700-1799 | 3 | 2·3 | | | 1 | ·9 |
| Cephalic Index | Dolichocephalic | x-75·9 | 39 | 29·5 | 4 | 16 | 17 | 16·1 |
| | Mesoccephalic | 76·0-80·9 | 66 | 50·0 | 16 | 64 | 45 | 42·7 |
| | Brachycephalic | 81·0-85·4 | 25 | 18·9 | 5 | 20 | 8 | 7·6 |
| | Hyperbrachycephalic | 85·5-x | 2 | 1·5 | 0 | | 0 | |
| Facial Index | Hypereuryprosopic | x-78·9 | 19 | 14·4 | 2 | 8 | - | - |
| | Euryprosopic | 79·0-83·9 | 26 | 19·7 | 11 | 44 | - | - |
| | Mesoprosopic | 84·0-87·9 | 47 | 35·6 | 8 | 32 | - | - |
| | Leptoprosopic | 88·0-92·9 | 31 | 23·5 | 4 | 16 | - | - |
| | Hyperleptoprosopic | 93·0-x | 9 | 6·8 | | | | |
| Nasal Index | Hyperleptorrhine | x-54·0 | 0 | | 0 | | 0 | |
| | Leptorrhine | 55·0-69·9 | 19 | 14·4 | 3 | 12 | 0 | |
| | Mesorrhine | 70·0-84·9 | 98 | 74·2 | 19 | 76 | 30 | 28·5 |
| | Chamaerrhine | 85·0-99·9 | 15 | 11·4 | 3 | 12 | 38·5 | 36·6 |
| | Hyperchamaerrhine | 100·0-x | 0 | | | | 1·5 | 1·4 |

Dixon (*Man in India*, 1922, p. 2)—the order of importance is the same in both the series—the only difference being that I have got 8·8% of DL element and 1·5 of DP element whereas Dixon has got no DL or DP element.

But in completing the analysis, out of the two possible constituent elements—BL+DP and BP+DL of MM group—he

had preferred the former on the ostensible ground that he did not get any DL element. But as already pointed out I have got 3·5% of unblended DL element and 1·5% of unblended DP element. On the basis of this data, if I take the MM group as a mixture of BP and DL, I get a result (Table XXV) which is substantially different from that of Dixon, although taking $MM = DP + BL$ my result agrees with that of Dixon (Table XXV).

TABLE XXIII.

| | | | Dixon | | Dixon and Waddell. | |
|----|-----|-------|-------|-------|--------------------|-------|
| | No. | P. c. | No. | P. c. | No | P. c. |
| MM | 49 | 37·1 | 12 | 48 | 40 | 38·8 |
| DM | 32 | 24·2 | 4 | 16 | 8 | 7·7 |
| BM | 17 | 12·9 | 3 | 12 | 4 | 3·9 |
| ML | 9 | 6·8 | 2 | 8 | 2 | 1·9 |
| MP | 8 | 6·1 | 2 | 8 | 27 | 26·2 |
| BP | 5 | 3·8 | 1 | 4 | 8 | 7·7 |
| BL | 5 | 3·8 | 1 | 4 | 1 | ·9 |
| DL | 5 | 3·8 | | .. | .. | .. |
| DP | 2 | 1·5 | | .. | 18 | 12·6 |

When $MM = DP + DL$.

TABLE XXIV.

| | | Dixon. |
|----|------|--------|
| DP | 16·7 | 36 |
| BL | 13·6 | 38 |
| BP | 31·8 | 14 |
| DL | 37·8 | 12 |

When $MM = BP + BL$.

TABLE XXV.

| | | Dixon. |
|----|------|--------|
| DP | 35·2 | 36 |
| BL | 32·1 | 38 |
| BP | 18·3 | 14 |
| DL | 19·3 | 12 |

In this connection I should like to point out (*cf.* Table XXIII) that both in my series and that of Dixon, there is a good percentage of a dolichocephalic and leptorrhine element. As such it will not be wise to neglect this (DL) element. If I at all analyse my data according to Dixon's principle, which is of doubtful utility and is against the modern biological principle of inheritance, I shall have to take MM as a mixture, in varying proportions, between BP, DL, DP and BL, as all the four elements occur in unblended form in almost equal proportion, there being an equal chance of each contributing its quota. Thus 37·1 per cent. of MM should be equally distributed in the four elements mentioned above. On analysing both my data and Dixon's, I find the following results :—

| | | Dixon. |
|----|--------|--------|
| DL | 28·6 % | 24 % |
| DP | 25·9 % | 24 % |
| BL | 22·9 % | 26 % |
| BP | 22·6 % | 26 % |

From the foregoing table it will be seen that there is not much difference between my series and that of Dixon. In both

the series, the DL element plays an important part and the other elements DP, BL and BP are almost of equal importance.

Further I might be allowed to point out that Haddon¹ gives the following physical characters for the Khasis—C. I. 78·6, N. I. 86·3, St. 1·569 m. For cephalic index and stature, he has followed Dixon, but for nasal index he has accepted the authority of Waddell, without any reason whatsoever.

Both Haddon and Dixon consider that the D. P. (pre-Dravidian according to Haddon and Negroid according to Dixon) is the earliest. I have no objection to this. I do not deny its presence. But I think that it played comparatively a minor part in the racial history of the Khasis, and what I am constrained to believe, on the presence of strong DL element, is that before the coming in of the BP (Pareocean) element from the Burma side, there was the coming in of a band of DL people whose evidence is met with in many parts of Further India, the last DL immigrants by way of the Ganges Valley not being so numerous and not so successful, as Dixon thinks, in modifying the racial complex. Is it that some other dolichocephalic leptorrhine element entered this region at a very early time ? Their contact with civilized society is not sufficient to explain the presence of such a strong dose of DL element, especially in the present series in which sufficient care was taken to eliminate persons who appeared to be cross-bred or whose origin was of a doubtful character.

DESCRIPTIVE CHARACTERS.

A few words might be added regarding descriptive characters. Though more subjective and dependent on personal bias, their service in deciphering the racial history of a people cannot be overlooked.

The colour of the skin in the unexposed part of the body varies between 8 to 27, the majority (78·1%) being between 13 to 18 (cf. Von Luschan's Skin Colour Chart).

¹ *The Races of Man*, 1924, pp. 115-6.

From Tables XXX-XL, it will be seen that they are a straight-haired (63·6%) people with a good percentage of wavy (32·6%) hair. The hair-colour is black (86·6%) although reddish hair (6·1%) is sometimes met with. The hair growth on the head is medium (62·1%) but on the face it is scarce (55·1%) and on the eye-brow it is scanty (72·7%).

The eye-slit is horizontal (65·2%) although oblique eyes (30·4%) in which the external canthi are higher and the Mongolic fold (19·6%) are met with. The colour of the iris varies from brown (45·5%) to light brown (53·0%) and the colour of the conjunctiva is, in the majority (65·9%) of cases, dirty or reddish yellow although cases are not rare where the colour of the conjunctiva is either bluish (10·6%) or nearly white (12·1%) or yellowish (11·4%).

The forehead is moderately high (65·2%) and broad (70·5%), although it is not uncommon to meet with high (29·5%) and broad (20·4%) ones. It is generally vertical (64·4%) and in some cases a slight retreat (31·8%) is noticeable.

The supra-orbital ridges are not marked and remain as a trace (75·0%) in a majority of the cases.

The nose is generally moderately concave (56·8%) although straight noses (35·6%) are not an infrequent occurrence. The nasion depression is shallow (53·8%) although there is a good percentage (34·1%) of deep root. The nasal septum is horizontal (82·6%).

The malars are, in the majority of cases, moderately prominent (68·2%) and small in size; (83·3%) although it is not uncommon to meet with persons with pronounced (24·2%) malars and of medium size (12·1%).

There is no alveolar prognathism (84·9%). Lips are either medium (63·6%) or thin (31·%) with no eversion (98·5%).

The chin is of ordinary form (64·4%). Sometimes pointed (19·7%) and square (13·6%) chins are met with. The angle of the lower jaw is medium (89·4%).

TABLE XXVI.

Hair.

| QUANTITY. | | | CHARACTER. | | | | COLOUR. | | | | |
|-----------|---------|---------|------------|--------|-----------|-------|---------|--------|--------------|------|---------------------|
| | Scanty. | Normal. | Medium. | Thick. | Straight. | Wavy. | Curly. | Black. | Rusty black. | Red. | Light brownish red. |
| No. | 14 | 12 | 82 | 24 | 84 | 43 | ... | 114 | 5 | 8 | 3 |
| 1 | 10·6 | 9·1 | 62·1 | 18·1 | 68·6 | 32·6 | ... | 86·4 | 8·9 | 6·1 | 2·3 |

TABLE XXVII.

Moustache and Beard.

| QUANTITY. | | | CHARACTER. | | | | COLOUR. | | | |
|-----------|---------|---------|------------|-----------|-------|--------|---------|--------------|------|--------------------|
| | Scarce. | Medium. | Thick. | Straight. | Wavy. | Curly. | Black. | Rusty black. | Red. | Light burnish red. |
| No. | 76 | 85 | 8 | 82 | 27 | ... | 79 | 4 | 27 | 4 |
| P. c. | 55·1 | 28·5 | 6·1 | 62·1 | 20·4 | .. | 59·8 | 8·0 | 20·4 | 8·0 |

TABLE XXVIII.

Eye-brows.

| | Scanty. | Medium. | Bushy. | Connected. |
|-------|---------|---------|--------|------------|
| No. | 92 | 31 | 1 | 12 |
| P. c. | 72·7 | 23·5 | ·8 | 9·1 |

TABLE XXIX.

Eye-slits.

| Horizontal. | | OBlique. | | | | | | Mengohie Fold. | | | |
|-------------|------|---------------------|------|---------|--------------------|------|---------|----------------|-----|--|--|
| | | Ext. Canthi higher. | | | Ext. Canthi lower. | | | | | | |
| | | Sl. | Mod. | Marked. | Sl. | Mod. | Marked. | | | | |
| No. | 86 | 20 | 20 | .. | . | 9 | . | 13 | . | | |
| P. c. | 65·2 | 15·2 | 15·2 | . | ... | 6·8 | . | 9·8 | 9·8 | | |

TABLE XXX.

Eye Colours.

| Iris. | | | | Conjunctiva. | | | |
|-------|--------|--------------|-------|--------------|--------------|------------|--------------------------|
| | Brown. | Light Brown. | Blue. | Bluish | Pearly white | Yellowish. | Dusky or reddish yellow. |
| No. | 60 | 70 | 1 | 14 | 16 | 15 | 87 |
| P. c. | 45·5 | 50·0 | ·8 | 10·6 | 12·1 | 11·4 | 65·9 |

TABLE XXXI.

Forehead.

| | Height. | | | Breadth. | | | Retreat. | | | |
|-------|---------|--------|-------|----------|---------|--------|----------|---------|----------|-------------|
| | Low. | Medium | High. | Narrow. | Medium. | Bread. | None. | Slight. | Moderate | Pronounced. |
| No. | 6 | 86 | 89 | 10 | 93 | 27 | 85 | 42 | 6 | ... |
| P. c. | 4·5 | 65·2 | 29·5 | 7·6 | 70·5 | 20·4 | 64·4 | 31·8 | 4·5 | ... |

TABLE XXXII.
Supra-orbital Ridges.

| | Imperceptible. | Traces. | Slight. | Moderate. | Pronounced. |
|------|----------------|---------|---------|-----------|-------------|
| No. | 18 | 99 | 11 | 2 | 1 |
| P.c. | 18·6 | 75·0 | 8·3 | 1·5 | ·3 |

TABLE XXXIII.
Nasion Depression.

| | Shallow. | Medium. | Deep. | Narrow. |
|------|----------|---------|-------|---------|
| No. | 71 | 2 | 45 | 18 |
| P.c. | 58·8 | 1·5 | 84·1 | 9·8 |

TABLE XXXIV.
Nasal Bridge.

| Straight. | Concave. | | | Convex. | | | Concavo-convex. | |
|-----------|-----------|------------|-----------|-----------|------------|----------|-----------------|-----|
| | Slightly. | Moderately | Markedly. | Slightly. | Moderately | Markedly | | |
| | No. | 47 | ... | 75 | ... | 9 | 5 | ... | 3 |
| P.c. | 85·6 | ... | 56·8 | ... | 1·5 | 3·9 | ... | 3·3 |

TABLE XXXV.

Nasal Septum.

| Horizontal. | Directed upward. | | | Directed downward. | | | |
|-------------|------------------|-------------|-----------|--------------------|-------------|-----------|-----|
| | Slightly. | Moderately. | Markedly. | Slightly. | Moderately. | Markedly. | |
| | No. | 109 | 4 | 5 | ... | 2 | 12 |
| P.c. | 82·6 | 3·0 | 3·9 | ... | 1·5 | 9·1 | ... |

TABLE XXXVI.

Malars.

| | Prominence. | | | | Size. | | |
|------|-------------|---------|---------|-------------|--------|---------|--------|
| | None. | Slight. | Medium. | Pronounced. | Small. | Medium. | Large. |
| No. | 4 | 7 | 90 | 32 | 1·0 | 16 | ... |
| P.c. | 3·0 | 5·3 | 68·2 | 24·2 | 83·3 | 12·1 | .. |

TABLE XXXVII.

*Alveolar Prognathism.**

| | None. | Small. | Medium. |
|------|-------|--------|---------|
| No. | 112 | 7 | ... |
| P.c. | 84·9 | 4·5 | ... |

TABLE XXXVIII.

Lips.

| | Thickness | | | | Eversion. | |
|------|-----------|--------|---------------|--------|-------------------|---------|
| | Thin. | Medium | Above medium. | Thick. | Slightly present. | Absent. |
| No. | 41 | 84 | 2 | 5 | 2 | 180 |
| P.c. | 81.1 | 63.0 | 1.5 | 3.9 | 1.5 | 98.5 |

TABLE XXXIX.

Chin.

| | Prominence. | Form | | |
|------|-------------|-----------|---------|----------|
| | | Ordinary. | Square. | Pointed. |
| No. | .. | 85 | 16 | 26 |
| P.c. | ... | 64.4 | 13.6 | 19.7 |

TABLE XI.

Angles of the Lower Jaw.

| | Sub-medium. | Medium. | Prominent. |
|------|-------------|---------|------------|
| No. | 1 | 118 | 5 |
| P.c. | .8 | 89.4 | 8.9 |

VITAL CAPACITY OF THE BENGALI STUDENTS

BY

DR. ANATHNATH CHATTERJI, M.B.B.S.

The importance of vital capacity as a measurement for routine examination was stressed as far back as 1919 by Dryer in his article "The Normal Vital Capacity in Man" (August, 1919, *Lancet*). "From a consideration of the results arrived at," said Dryer, "it seems likely that systematic measurements of the vital capacity and various body measurements in adults and adolescence in different trades and occupations and in different ranks of life will afford most important information from the point of view of national health and will throw light upon the value of such measures as may be contemplated for the improvement of the general health and well-being of the people."

John Hutchinson, who introduced the spirometer and studied the relationship of vital capacity with various body measurements, formulated the following rule :—

"For every inch in height from five feet to six feet eight additional cubic inches of air at 60° F. are given out by force expiration."

He further stated that the correlation with other bodily measurements such as weight, circumference of chest, etc., did not give satisfactory results.

Lundsgaard and Van Slyke, studying a series of 18 normal men and women, found that the vital capacity vary more closely with the calculated chest volume than with height.

Dryer maintained that vital capacity was a function of weight and used the following formula for calculating a constant :—

$$\frac{w^n}{\text{vital capacity}} = k$$

where w is the net weight of the body in grams, the vital capacity is expressed in ccm. and the power n is equal to 0.72. The average value of k was 0.690.

West used a standard based on body surface area and showed that the vital capacity varies with this function more uniformly than with others. The formula used was

$$\frac{\text{vital capacity in litres}}{\text{the body surface area in sq. meters}}$$

and the calculated index was found to be 2.61 for men. West further computed the values for the direct ratio between the vital capacity and height, and the average for the men was found to be 26.5, but the value 25 was arbitrarily chosen as being, for practical purposes, near to the normal for the average.

Peabody and Wentworth published the following averages for normal adults and stated that in normal people the vital capacity is at least 85% and almost always 90% or more of the standard adopted for each group :

TABLE No. I.

| Group | Number studied | Height in feet and inches | Normal Vital Capacity in cc. | Number with in 10 % of normal | Number below 90 % of normal |
|-------|----------------|---------------------------------|------------------------------|-------------------------------|-----------------------------|
| I | 14 | 6' + | 5,100 | 9 | 0 |
| II | 44 | Over 5'—8 $\frac{1}{3}$ " to 6' | 4,800 | 41 | 0 |
| III | 88 | 5'—8" to 5'—8 $\frac{1}{3}$ " | 4,000 | 81 | 1 |

The determination of the normal vital capacity for Indians has not received that attention which the importance of the

subject well deserved. In the Report of the Students' Welfare Committee for 1924, I published the averages for the vital capacity of Bengali students between the ages 15 and 22 as determined by an examination as of over 2500. These figures, together with the averages for height, weight, chest circumference, and chest expansion for the different age-groups, were republished in the volume *First Studies on the Health and the Growth of the Bengali Students*, published by the Calcutta University, 1932.

In 1928, Prof. S. L. Bhatia read a paper on the vital capacity of 100 students at the Medical Section of the Indian Science Congress.

In 1931, Prof. J. N. Mukherji in his paper on Basal Metabolism, gave the vital capacities of 14 Bengali medical students and computed the relation with the body surface area as equal to 2.225.

In 1932, Krishnan and Vareed published the following figures based on a study of 103 South Indian medical students : "The average vital capacity for all the subjects examined is found to be 2.93 l., 1.85 l. per square meter of body surface area, and 17.5 cc. per centimeter of standing height." It is considered that for finding the normal vital capacity, the standards based on age, body surface, standing height and chest expansion should be taken note of.

Amongst South Indian women the average vital capacity was found to be 75% lower than for Europeans.

During the year 1933 I took up the study of the subject again and recorded the vital capacity of 1,978 fresh students together with certain body measurements.

In the following table are shown the averages of height, weight, body surface area, chest circumference, chest expansion, vital capacity and certain vital capacity constants, computed from the data collected, together with their standard deviations.

A. N. CHATTERJI

Table showing influence of Age on Vital Capacity and Vital Capacity Constants.

| Age. | No. of students. | Height in cm. | Weight in kg. | Body surface in sq. m. | Circumference in cm. | Expansion in cm. | Vital capacity in liters. | | $\frac{VC}{B^2}$ = | $\frac{VC}{K^2}$ = | $\frac{VC}{W^2}$ = | $\frac{VC}{H^2}$ = |
|------|------------------|---------------|---------------|------------------------|----------------------|------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | | | | | | Vital capacity in liters. | $\frac{VC}{B^2}$ = | | | | |
| 8 | 41 | 122.6 ± 6.8 | 21.7 ± 3.6 | 0.87 | 58.5 | 8.5 | 1.03 ± .26 | 8.40 ± 1.70 | 1.18 ± .190 | 1.285 ± .385 | 3.323 | |
| 9 | 42 | 127.0 ± 6.1 | 28.1 ± 3.7 | 0.90 | 57.2 | 8.7 | 1.13 ± .26 | 8.89 ± 1.66 | 1.26 ± .175 | 1.227 ± .251 | 2.895 | |
| 10 | 148 | 132 ± 6.4 | 24.9 ± 4.0 | 0.98 | 61.6 | 8.7 | 1.20 ± .29 | 9.09 ± 1.79 | 1.23 ± .187 | 1.219 ± .307 | 3.162 | |
| 11 | 166 | 136 ± 7.0 | 27.1 ± 6.4 | 1.04 | 63.8 | 4.6 | 1.34 ± .36 | 9.92 ± 2.05 | 1.29 ± .208 | 1.161 ± .257 | 3.040 | |
| 12 | 192 | 142 ± 7.4 | 30.9 ± 6.9 | 1.12 | 66.2 | 4.4 | 1.46 ± .39 | 10.28 ± 2.27 | 1.30 ± .204 | 1.169 ± .355 | 2.993 | |
| 13 | 170 | 147 ± 7.6 | 34.5 ± 6.5 | 1.21 | 68.7 | 4.4 | 1.71 ± .40 | 11.33 ± 2.16 | 1.41 ± .184 | 1.081 ± .185 | 2.820 | |
| 14 | 211 | 154 ± 8.1 | 39.8 ± 6.7 | 1.31 | 71.9 | 4.5 | 2.01 ± .47 | 13.05 ± 2.39 | 1.53 ± .204 | 1.012 ± .201 | 2.572 | |
| 15 | 210 | 161.5 ± 7.65 | 46.6 ± 7.7 | 1.476 | 75.5 | 4.7 | 2.50 ± .57 | 15.47 ± 2.85 | 1.69 ± .22 | .905 ± .176 | 2.276 | |
| 16 | 201 | 164.0 ± 6.44 | 50.1 ± 8.6 | 1.63 | 78.6 | 4.7 | 2.80 ± .52 | 17.07 ± 2.54 | 1.83 ± .16 | .890 ± .105 | 2.264 | |
| 17 | 189 | 165.0 ± 5.60 | 51.9 ± 7.8 | 1.66 | 80.4 | 4.6 | 3.00 ± .51 | 18.18 ± 2.50 | 1.92 ± .17 | .885 ± .105 | 2.164 | |
| 18 | 183 | 166.0 ± 6.25 | 53.4 ± 8.9 | 1.58 | 80.6 | 4.6 | 3.03 ± .48 | 18.25 ± 2.26 | 1.92 ± .13 | .882 ± .101 | 2.144 | |
| 19 | 88 | 166.0 ± 5.5 | 55.2 ± 6.5 | 1.56 | 80.9 | 4.6 | 3.08 ± .54 | 18.56 ± 2.67 | 1.97 ± .13 | .876 ± .090 | 2.125 | |
| 20 | 67 | 165 ± 5.3 | 52.3 ± 6.3 | 1.57 | 81.3 | 4.7 | 3.00 ± .50 | 18.18 ± 2.50 | 1.91 ± .18 | .883 ± .101 | 2.208 | |

N.B.—The figures in italics give the mean values for American and European students.

An inspection of the above table will show that—

(1) the average vital capacity of Bengali college students between the ages 17 and 20 is $3\cdot0$ l. $\pm\cdot50$ l., $1\cdot9$ l. $\pm\cdot18$ l. per sq. m. of body surface, and $18\cdot18$ cc. $\pm 2\cdot5$ cc. per cm. of standing height;

(2) the vital capacity increased steadily with age, height, weight, body surface area, chest circumference, and less regularly with chest expansion;

(3) the vital capacity constants for the different age-groups are different and vary so widely that it is not possible to select any representative value for any constant;

(4) of the different constants computed, the direct ratio between the vital capacity and the body surface area varies the least and shows a more or less regular gradation;

(5) and lastly, vital capacity as a measure is extremely variable, the range of variation being 16% to 22%.

A separate memoir on the vital capacity of the Bengali students, its inter-relationship with various physical measurements and variations in disease is under preparation and will be published shortly.

OS MALARE BIPARTITUM IN BENGALI CRANIA.

BY

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The occurrence of Os malare bipartitum, otherwise known as Os Japonicum, is so rare in Indian crania that a record of one or two instances of its occurrence may be justified. In 2 out of 9 crania recently added to our museum, the zygomatic bone is found to be totally divided on both sides, by a transverse inter-zygomatic suture, termed also as Sutura Japonica by A. Posnansky¹ or Sutura Malaris by Hans Virchow². In one



FIG. I. Dioptographic tracing of the zygomatic bone showing "Os Japonicum." (Actual size.)

¹ Posnansky, A., Signos Mongoloides en Algunos tipos étnicos del Altiplano Andino. Estudio presentado ante el segundo Congreso Panamericano, Washington, 1915-1916, p. 8.

² Virchow, Hans, Einen Schädel mit ungewöhnlichen Os Malare bipartitum, Zeitschrift für Ethnologie, 1926, p. 178.

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instance, however, though the inter-zygomatic suture is obliterated in the major portion of the bone, yet it can be easily detected on account of the distinct traces of the suture in both ends. These skulls belong to the Muchis, a very low-caste people of Bengal, and have been collected by Prof. H. C. Chakladar from Bongong, a sub-divisional town in the district of Jessore. The cranial and nasal indices of these two crania are 71·0 (C. 1), 47·9 (N. 1); 74·8 (C. 1), 57·7 (N. 1). In one skull, however, there is a complete synostosis of the internasal suture.

Its rarity can be attested from the frequency of its occurrence in different races which is as follows :—

| | | | | | |
|------|------------------------|-----|-----|--------|-----------|
| 974 | Japanese | ... | ... | 3·2 | per cent. |
| 4500 | Russian | ... | ... | 0·5 | " |
| 5000 | European (in general) | ... | ... | 0·3 | " |
| 800 | French | ... | ... | 0·1 | " |
| 3192 | North American Indians | ... | ... | 0·2 | " 1 |
| 180 | Lapps | ... | ... | 1·1 | " 2 |
| 127 | Burmese | ... | ... | 0·8 | " 3 |
| 20 | Tihuanacu crania | ... | ... | 1 case | 4 |

Besides these, 2 instances have been found in Negro crania⁵ and 1 instance in Turfan crania.⁶ It has also been noted in a prehistoric Indian cranium collected from the province of Jujuy.⁷

¹ Martin, Rudolf, *Lehrbuch der Anthropologie*, Band II., Jena, 1928, p. 956.

² Niemi, T., *Anthropologische Untersuchungen über das Jochbein der Lappen*, *Annales Academiae Scientiarum Fennicae*, Series A, Vol. 35. Helsingfors, 1931.

³ Tildeley, M. L., *A First Study of the Burmese Skull*, *Biometrika*, Vol. XIII, p. 284.

⁴ Poenansky, A., *op. cit.*, p. 3.

⁵ Martin, Rudolf, *op. cit.*, p. 956.

⁶ Virchow, Hans, *op. cit.*, p. 177.

⁷ Vignati, M., *Un caso de bipartition total del hueso "malar. Notas Preliminares del Museo de La Plata*, Vol. I, Buenos Ayres. 1931.

